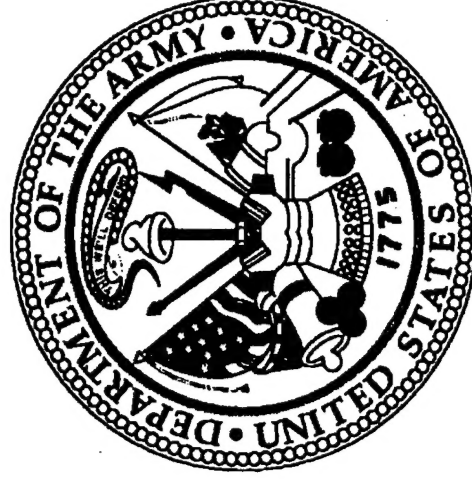


DEPARTMENT OF THE ARMY

Procurement Programs



DTIC QUALITY INSPECTED 3

Committee Staff Procurement Backup Book
FY 1999 Budget Estimates

PROCUREMENT OF AMMUNITION, ARMY

19980305 064

February 1998

APPROPRIATION

DISTRIBUTION STATEMENT 4
Approved for public release;
Distribution Unlimited

Budget Plan (amounts for PROCUREMENT actions programmed)

Obligations

Identification code	21-2034-0-1-051	1997 actual	1998 est.	1999 est.	1997 actual	1998 est.	1999 est.
Program by activities:							
Direct program:							
00.0101	Ammunition	891,228	841,184	827,163	863,444	811,615	773,263
00.0201	Ammunition production base support	251,377	178,618	181,692	259,511	203,945	211,883
00.9101	Total direct program	1,142,605	1,019,802	1,008,855	1,122,955	1,015,560	985,146
01.0101	Reimbursable program	7,909	50,600	436,090	9,572	52,738	436,090
10.0001	Total	1,150,514	1,070,402	1,444,945	1,132,527	1,068,298	1,421,236
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)	-5,129	-40,600	-419,090	-4,566	-40,600	-419,090
14.0001	Non-federal sources(-)	-2,780	-10,000	-17,000	-2,506	-10,000	-17,000
17.0001	Recovery of prior year obligations				-14,127		
21.4002	Unobligated balance available, start of year:						
21.4003	For completion of prior year budget plans						
21.4009	Available to finance new budget plans	-25,736	-5,000		-213,808	-244,449	-246,553
22.2001	Reprogramming from/to prior year budget plan	-635			-25,736	-5,000	
22.2001	Unobligated balance transferred from other ac	-800			-800		
24.4002	Unobligated balance available, end of year:						
24.4003	For completion of prior year budget plans	5,000			244,449	246,553	270,262
25.0001	Available to finance subsequent year budget	1,435			5,000		
25.0001	Unobligated balance expiring				1,435		
39.0001	Budget authority	1,121,869	1,014,802	1,008,855	1,121,869	1,014,802	1,008,855
Budget authority:							
40.0001	Appropriation	1,089,354	1,037,202	1,008,855	1,089,354	1,037,202	1,008,855
40.3601	Appropriation rescinded (unob bal)		-5,000			-5,000	
40.7601	Reduction pursuant to P.L. 105-56 (-), 8041		-17,400			-17,400	
41.0001	Transferred to other accounts (-)	-85			-85		
42.0001	Transferred from other accounts	32,600			32,600		
43.0001	Appropriation (adjusted)	1,121,869	1,014,802	1,008,855	1,121,869	1,014,802	1,008,855
Relation of obligations to outlays:							
71.0001	Obligations incurred				1,125,455	1,017,698	985,146
72.1001	Orders on hand, SOY				-14,419	-13,477	-13,477
72.4001	Obligated balance, start of year				1,684,451	1,618,162	1,525,281
74.1001	Orders on hand, EOY				13,477	13,477	13,477
74.4001	Obligated balance, end of year				-1,618,162	-1,525,281	-1,347,633
77.0001	Adjustments in expired accounts (net)				-11,237		
78.0001	Adjustments in unexpired accounts				-14,127		
90.0001	Outlays (net)				1,165,438	1,110,579	1,162,794

Identification code	21-2034-O-1-051	1997 actual	1998 est.	1999 est.
Direct obligations:				
121.001	Travel and transportation of persons	76	30	36
122.001	Transportation of things	8,941	8,102	7,857
125.101	Advisory and assistance services		166	
125.201	Other services with the private sector			
126.001	Supplies and materials	707,035	638,262	618,912
131.001	Equipment	405,944	366,429	355,319
		959	2,571	3,022
199.001	Total Direct obligations	1,122,955	1,015,560	985,146
Reimbursable obligations:				
222.001	Transportation of things		2	21
225.201	Other services with the private sector			
226.001	Supplies and materials	5,580	101	777
231.001	Equipment	3,992	52,634	435,285
			1	7
299.001	Total Reimbursable obligations	9,572	52,738	436,090
999.901	Total obligations	1,132,527	1,068,298	1,421,236

PROCUREMENT OF AMMUNITION, ARMY

APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of ammunition, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including ammunition facilities authorized by Section 2854, Title 10, United States Code, and the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for for the foregoing purposes; \$1,008,855,000 in fiscal year FY1999 to remain available for obligation until September 30, 2001.

**COMPARISON OF FY 1998 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 1998/FY 1999 BUDGET
WITH THE FY1998 PROGRAM REQUIREMENTS AS
SHOWN IN THE FY 1999 BUDGET
SUMMARY OF REQUIREMENTS (in Millions of Dollars)**

Appropriation Procurement of Ammunition, Army	FY 1998	FY 1998	Increase or (Decrease)
	Requirements Per FY1998/FY1999 Budget	Requirements Per FY1999 Budget	
Activity 1 - Ammunition	694	841	147
Activity 2 - Ammunition Production Support	197	179	(18)
Reimbursable Program	61	51	(10)
	952	1,071	129

EXPLANATION BY ACTIVITY

Activity 1 - Ammunition - The net increase (\$+147.0) resulted from congressional adjustments to CTG 5.56mm AT (\$+1.4); CTG 7.62mm AT (\$+3.0), CTG 50 Cal AT (\$+0.2); CTG 20mm AT (\$+0.3); CTG 40mm AT (\$+5.0); CTG 120mm FRTC XM931 (\$8.0); CTG, 120mm Mortar HE M934 (\$9.0); 120mm Illum XM930 (\$3.0); Ctg, 120mm HEAT-MP-T (\$8.0); 120mm TP-T M831 (\$9.8); 120mm TPCSCS-T M865 (\$7.7), CTG, Arty, 105mm DPICM XM915 (\$10.0); Proj, Arty, 155mm M795 (\$36.0); Fuze, Arty M767 (\$15.0); Mine, VOLCANO, M87 (\$17.0); Bunker Defeating Munition (\$8.0); and Rocket, Hydra 70, AT (\$25.2).

A proportionate reduction was made for economic assumptions (-\$4.9), Section 8106 (-\$1.5), and Section 8043 (\$12.8) of the FY1998 Appropriations Act.

Activity 2- Ammunition Production Support- the net decrease (-\$18.1) resulted from congressional adjustments to Provision of Industrial Facilities (-\$21.0), Conventional Ammo Demil (-\$13.0), and Armament Retooling and Manufacturing Support (ARMS) (+\$20.0).

A proportionate reduction was made for economic assumptions (-\$1.1), Section 8106 (-\$0.3), and Section 8043 (\$2.7) of the FY1998 Appropriations Act.

**COMPARISON OF FY 1998 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 1999 BUDGET
WITH THE FY1999 PROGRAM REQUIREMENTS AS
SHOWN IN THE FY 1999 BUDGET
SUMMARY OF REQUIREMENTS (In Millions of Dollars)**

Appropriation Procurement of Ammunition, Army	FY 1998 Requirements Per FY1999 Budget	FY 1999 Requirements Per FY1999 Budget	Increase or (Decrease)
Activity 1 - Ammunition	841	827	(14)
Activity 2 - Ammunition Production Support	179	182	3
Reimbursable Program	51	436	385
	1,071	1,445	(11)

EXPLANATION BY ACTIVITY

Activity 1 = Reductions in activity 1 (ammunition hardware) include a slight reduction in the percent of training requirement supported and a reduction of the number of modern war reserve items being procured from 5 of 14 modern items to 4 of 14 modern items. FY98 activity 1 received a \$147.0M Congressional increase in FY98.

Activity 2 =Increases in activity 2 reflect a combination of congressional adjustments in FY 1998 and increases in conventional ammunition demilitarization funding to cover increased rates being charged by the Army Working Capital Fund.

Reimbursable Program = FY99 reimbursable program increase reflects Army acceptance of other services ammunition orders. Beginning in FY 1999, the Conventional Ammunition Working Capital Fund will no longer accept orders. Army ammunition will be funded on a direct basis; orders from other services will be accepted by the Army on a reimbursable basis.

Index for PROCUREMENT OF AMMUNITION, ARMY

Blin	Nomenclature	SSN	Filename	Page Number
1	P1 EXHIBIT			P1-1
3	CTG, 5.56MM, ALL TYPES	E00700	40132159.99P	1
5	CTG, 7.62MM, ALL TYPES	E02000	40612159.99P	43
6	CTG, 9MM, ALL TYPES	EA3000	41450159.99P	63
7	CTG, .45 CAL, ALL TYPES	ER8110	41540159.99P	72
8	CTG, .50 CAL, ALL TYPES	E08000	41722159.99P	74
9	CTG CAL .50 API MK211 MOD 0	F47400	42234159.99P	94
10	CTG, 20MM, ALL TYPES	E08900	42382159.99P	99
11	CTG, 25MM, ALL TYPES	E08200	42650160.99P	101
12	CTG, 30MM, ALL TYPES	ER8120	42938159.99P	118
13	CTG, 40MM, ALL TYPES	ER8001	43222159.99P	129
14	CTG MORTAR 60MM 1/10 PRAC M766	E72000	40684119.99P	145
15	CTG MORTAR 60MM ILLUM M721/M767	E70400	41266119.99P	150
16	CTG MORTAR 60MM SMOKE WP M722	E70500	41848159.99P	155
17	CTG MORTAR 60MM HE M720	E67303	42431159.99P	161
18	CTG 81MM INFRARED (IR) ILLUM XM816	E90000	44770119.99P	165
19	CTG MORTAR 120MM FULL RANGE PRACTICE M931	E25507	46796119.99P	169
20	CTG MORTAR 120MM HE M934 W/MO FUZE	E25501	47086119.99P	175
21	CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ	E25503	48250119.99P	180
22	CTG MORTAR 120MM SMOKE M929 W/MO FUZE	E25504	48832119.99P	185
23	CTG 120MM APFSDS-T M829A2/M829E3	E78001	44262114.99P	190
24	CTG 120MM HEAT-MP-T M830A1	E78007	45822114.99P	195
25	CTG TANK 120MM TP-T M831/M831A1	E73300	47382159.99P	199
26	CTG TANK 120MM TPCSDS-T M865	E73400	47902159.99P	204
27	CTG ARTY 75MM BLANK M337A1	E15200	40532159.99P	209
	CTG ARTY 105MM DPICM XM915	E53500	41178132.99P	215

Index for PROCUREMENT OF AMMUNITION, ARMY

Blin	Nomenclature	SSN	Filename	Page Number
29	PROJ ARTY 155MM SMOKE WP M825	E67800	43972159.99P	220
30	PROJ ARTY 155MM HE M795	E66800	45700114.99P	221
31	PROJ ARTY 155MM SADARM M898	E66300	46550114.99P	226
32	PROJ ARTY 155MM HE M107	E27601	46767159.99P	233
33	FUZE ARTY ELECT TIME	E53500	41516132.99P	238
36	MINE AT M87 (VOLCANO)	E72195	47922122.99P	243
37	WIDE AREA MUNITIONS	E78100	49622122.99P	247
38	BUNKER DEFEATING MUNITION (BDM)	E88400	42246132.99P	252
39	ROCKET, HYDRA 70, ALL TYPES	E37300	43246159.99P	259
40	DEMOLITION MUNITIONS, ALL TYPES	E55400	42790160.99P	287
41	GRENADES, ALL TYPES	E34000	44582160.99P	312
42	SIGNALS, ALL TYPES	E46900	46038160.99P	334
43	SIMULATORS, ALL TYPES	E51200	48278159.99P	351
44	AMMO COMPONENTS, ALL TYPES	EB0016	40684159.99P	358
45	CAD/PAD ALL TYPES	EA0003	42430159.99P	364
46	ITEMS LESS THAN \$2 MILLION	EA0055	42624159.99P	365
47	AMMUNITION PECULIAR EQUIPMENT	EA0575	44370159.99P	367
49	FIRST DESTINATION TRANSPORTATION (AMMO)	EA0550	44758159.99P	368
51	PROVISION OF INDUSTRIAL FACILITIES	EP1200	40572120.99P	369
53	LAYAWAY OF INDUSTRIAL FACILITIES	EP2000	42922120.99P	392
54	MAINTENANCE OF INACTIVE FACILITIES	EP1500	44096120.99P	395
55	CONVENTIONAL AMMO DEMILITARIZATION	EP1800	44100120.99P	398
56	ARMS INITIATIVE	EP2500	44150120.99P	400

DEPARTMENT OF THE ARMY
FY 99 PROCUREMENT PROGRAM

EXHIBIT P-1
February 1998

Appropriation: **AMMUNITION**

Activity: 1. **AMMUNITION**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97		FY 98		FY 99	
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	SMALL/MEDIUM CALIBER AMMUNITION								
1	CTG, 5.56MM, ALL TYPES (E00700)	A			40,695		63,531		91,620
2	CTG 5.56MM ARMOR PIERCING M995 (F47600)	A	1,465	1,438	1,996	1,563	1,933	1,314	1,926
3	CTG, 7.62MM, ALL TYPES (E02000)	A			11,965		4,043		10,463
4	CTG 7.62MM ARMOR PIERCING XM993 (F47500)	A	2,088	1,030	1,996	1,181	1,949	922	1,926
5	CTG, 9MM, ALL TYPES (EA3000)	A			999		4,135		1,907
6	CTG, 45 CAL, ALL TYPES (ER8110)	A					72		2
7	CTG, .50 CAL, ALL TYPES (E08000)	A			4,947		19,724		18,544
8	CTG CAL .50 API MK211 MOD 0 (F47400)	A		329	2,045	286	1,949		
9	CTG, 20MM, ALL TYPES (E08900)	A			300				
10	CTG, 25MM, ALL TYPES (E08200)	A			79,892		86,189		59,618
11	CTG, 30MM, ALL TYPES (ER8120)	A			12,977		10,125		9,061
12	CTG, 40MM, ALL TYPES (ER8001)	A			32,128		30,503		35,618
	SUB-ACTIVITY TOTAL				189,940		224,153		230,685

DEPARTMENT OF THE ARMY
FY 99 PROCUREMENT PROGRAM

EXHIBIT P-1
February 1998

Appropriation: **AMMUNITION**

Activity: 1. **AMMUNITION**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97		FY 98		FY 99	
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	MORTAR AMMUNITION								
13	CTG MORTAR 60MM 1/10 PRAC M766 (E72000)	A		8	5,209				
14	CTG MORTAR 60MM ILLUM M721/M767 (E70400)	A		28	13,127				
15	CTG MORTAR 60MM SMOKE WP M722 (E70500)	A				23	4,638		375
16	CTG MORTAR 60MM HE M720/M720A1 W/M734 FUZE (E67303)	A	436,765		1,400			47	20,528
17	CTG 81MM INFRARED (IR) ILLUM XM816 (E90000)	B	936,600					10	9,366
18	CTG MORTAR 120MM FULL RANGE PRACTICE M931 (E25507)	A	409,309	127	50,907	78	31,704	97	39,703
19	CTG MORTAR 120MM HE M934 W/MO FUZE (E25501)	A	881,424			43	38,036	33	29,087
20	CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ (E25503)	B		13	25,953	2	2,933		
21	CTG MORTAR 120MM SMOKE M929 W/MO FUZE (E25504)	A		27	34,936				
	SUB-ACTIVITY TOTAL				131,532		77,311		99,059

Activity: 1. **AMMUNITION**

P-1 Page 3 of 6

DEPARTMENT OF THE ARMY
FY 99 PROCUREMENT PROGRAM

EXHIBIT P-1
February 1998

Appropriation: **AMMUNITION**

Activity: 1. **AMMUNITION**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	ARTILLERY FUZES								
33	FUZE ARTY ELEC TIME M767 (E61200)	A		1	309	62	14,664		1,514
34	FUZE MULTI OPTION (ER8017)	B	757,000					2	
	SUB-ACTIVITY TOTAL				309		14,664		1,514
	MINES								
35	MINE, TRAINING, ALL TYPES (EA0800)	B			1,926				973
36	MINE AT M87 (VOLCANO) (E72195)	A		4	14,973	6	16,618		
37	WIDE AREA MUNITIONS (E78100)	B	148,076	70	9,982	215	14,980	65	9,625
	SUB-ACTIVITY TOTAL				26,881		31,598		10,598
	ROCKETS								
38	BUNKER DEFEATING MUNITION (BDM) (E88400)	B			9,982		7,821		
39	ROCKET, HYDRA 70, ALL TYPES (E37300)	A			27,252		36,431		126,055
	SUB-ACTIVITY TOTAL				37,234		44,252		126,055
	OTHER AMMUNITION								
40	DEMOLITION MUNITIONS, ALL TYPES (E55400)	A			16,376		18,345		8,800
41	GRENADES, ALL TYPES (E34000)	B			4,150		14,309		21,382
42	SIGNALS, ALL TYPES (E46900)	A			1,292		7,686		12,985

DEPARTMENT OF THE ARMY
FY 99 PROCUREMENT PROGRAM

EXHIBIT P-1
February 1998

Appropriation: **AMMUNITION**

Activity: 1. **AMMUNITION**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)							
				FY 97		FY 98		FY 99		QTY	COST
				QTY	COST	QTY	COST	QTY	COST		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
43	SIMULATORS, ALL TYPES (E51200)	A			2,767		4,471		4,651		
	SUB-ACTIVITY TOTAL				24,585		44,811		47,818		
	MISCELLANEOUS										
44	AMMO COMPONENTS, ALL TYPES (EB0016)	A			1,161		4,715		7,241		
45	CAD/PAD ALL TYPES (EA0003)	A			1,000		1,063		2,320		
46	ITEMS LESS THAN \$2 MILLION (EA0055)	A			4,221		801		1,009		
47	AMMUNITION PECULIAR EQUIPMENT (EA0575)	A			5,169		8,433		10,368		
48	ITEMS LESS THAN \$2 MILLION (AMMO) (EL4000)				925						
49	FIRST DESTINATION TRANSPORTATION (AMMO) (EA0550)	A			5,332		6,410		6,174		
50	CLOSED ACCOUNT ADJUSTMENTS (EA0004)				37						
	SUB-ACTIVITY TOTAL				17,845		21,422		27,112		
	ACTIVITY TOTAL				891,228		841,184		827,163		

DEPARTMENT OF THE ARMY
FY 99 PROCUREMENT PROGRAM

EXHIBIT P-1
February 1998

Appropriation: **AMMUNITION**

Activity: 2. **AMMUNITION PRODUCTION BASE SUPPORT**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST	(5)	QTY	COST	(10)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	PRODUCTION BASE SUPPORT								
51	PROVISION OF INDUSTRIAL FACILITIES (EP1000)				49,732		24,299		47,660
52	COMPONENTS FOR PROVE-OUT (EA0054)				449				
53	LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)				21,140		16,375		15,362
54	MAINTENANCE OF INACTIVE FACILITIES (EP1500)				22,110		22,485		15,826
55	CONVENTIONAL AMMO DEMILITARIZATION (EP1800)				95,428		91,029		97,983
56	ARMS INITIATIVE (EP2500)				29,918		24,430		4,861
57	POST RETIREMENT BENEFITS (EP5000)				32,600				
	SUB-ACTIVITY TOTAL				251,377		178,618		181,692
	ACTIVITY TOTAL				251,377		178,618		181,692
	APPROPRIATION TOTAL				1,142,605		1,019,802		1,008,855

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date: February 1998										
PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Item Nomenclature: CTG. 5.56MM, ALL TYPES (E00700)										
Program Elements for Code B Items:		Other Related Program Elements:										
		Code: A										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	1526.0	81.5	58.2	40.7	63.5	91.6	95.3	98.7	100.1	97.3	0.0	2252.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1526.0	81.5	58.2	40.7	63.5	91.6	95.3	98.7	100.1	97.3	0.0	2252.9
Initial Spares												
Total Proc Cost	1526.0	81.5	58.2	40.7	63.5	91.6	95.3	98.7	100.1	97.3	0.0	2252.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

This budget line includes 5.56MM ALL TYPES.

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG. 5.56MM, ALL TYPES (E00700)			Weapon System Type:			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		CTG 5.56MM BALL M193					14318	0.27				14487	64009	0.23
		CTG 5.56MM BLANK M200										15096	83163	0.18
		CTG 5.56MM BLANK M200 LINKED F/SAW	7122	18742	0.38	3845			3933	18460	0.21	12169	45497	0.27
		CTG 5.56MM BALL M855 LINKED F/SAW	4304	7550	0.57	999	2560	0.39	14617	41278	0.35	5506	16518	0.33
		CTG 5.56MM 4 BALL M855/1 TRACER M856	700			19087	36704	0.52	4281	9582	0.45	9897	27514	0.36
		CTG 5.56MM BALL M855 F/M16A2	45189	115870	0.39	16764	42984	0.39	37241	102149	0.36	28679	97594	0.29
		CTG 5.56MM TRACER M856 F/M16A2	850	1491	0.57				3459	6509	0.53	2526	6287	0.40
		CTG 5.56MM RIFLE LAUNCHER, NON-LETHAL, XM95										3260	90	36.22
TOTAL			58165			40695			63531			91620		

Exhibit P-40, Budget Item Justification Sheet													Date:	February 1998
Appropriation / Budget Activity/Serial No:													P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition													CTG 5.56MM BALL M193 (E00701)	
Program Elements for Code B Items:													Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty	12765522			14318		64009	35201	35201	35201	35201		12984653		
Gross Cost	891.7	0.0	0.0	3.8	0.0	14.5	8.1	8.2	8.3	8.4	0.0	943.0		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	891.7	0.0	0.0	3.8	0.0	14.5	8.1	8.2	8.3	8.4	0.0	943.0		
Initial Spares														
Total Proc Cost	891.7	0.0	0.0	3.8	0.0	14.5	8.1	8.2	8.3	8.4	0.0	943.0		
Flyaway U/C														
Wpn Sys Proc U/C														

DESCRIPTION:

The 5.56mm Ball M193 is an anti-personnel cartridge containing a 56 grain, gilding metal-jacketed bullet with a lead antimony core. It is issued for use in the M16/M16A1 series rifle. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1975

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM BALL M193 (E00701)			Weapon System Type: A066			Date: February 1998		
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		AMMUNITION HARDWARE												
		Load, Assemble and Pack				2700	14318	0.19				12482	64009	0.20
		Box Metal M2A1				90	18	5.03				445	80	5.57
		Propellant WC844 (LB)				340	59	5.74						
		SubTotal AMMO Hardware				3130						12927		
		Production Support Costs				141						1287	7	
		Production Engineering				4						7		
		Quality Assurance				34						7		
		Interim Transportation				30						259		
		Industrial Stock Support				125								
		SubTotal Prod. Support				381						1560		
		TOTAL				3845		0.27				14487		0.23

Exhibit P-5a, Budget Procurement History and Planning													
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			Weapon System Type:			P-1 Line Item Nomenclature: CTG 5.56MM BALL M193 (E00701)							
WBS Cost Elements: Fiscal Years			Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Load, Assemble and Pack FY 94			Olin Corp (Lake City AAP) Independence MO		SS/CPAF IOC		Nov-93	Oct-94	30233	0.19			
FY 97			Olin Corp (Lake City AAP) Independence MO		SS/CPAF IOC		Mar-97	Oct-97	14318	0.19	Yes		Dec-96
FY 99			Olin Corp (Lake City AAP) Independence MO		SS/CPAF IOC		Nov-98	Oct-99	64009	0.20	Yes		Oct-98
Box Metal M2A1 FY 94			Brockway Standard Homerville, GA		C/FP IOC		Jan-94	Jul-94	38	5.68			
FY 97			Brockway Standard Homerville, GA		C/FP IOC		May-97	Aug-97	18	5.03	Yes		Feb-97
FY 99			TBS		C/FP IOC		Jan-99	Jul-99	80	5.57	Yes		Oct-98
Propellant WC844 (LB) FY 94			Olin Corp St. Marks, FL		SS/FP IOC		Aug-94	Sep-94	128	5.98			
FY 97			Olin Corp St. Marks, FL		SS/FP IOC		Jul-97	Sep-97	59	5.74	Yes		Apr-97
FY 99			Plant Procured		N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
REMARKS: TBS - To Be Selected													

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity / Serial No.		P-1 Item Nomenclature:											
PROCUREMENT OF AMMUNITION / 11 / Ammunition		CTG 5.56MM BLANK M200 (E01100)											
Program Elements for Code B Items:		Code:		Other Related Program Elements:									
		A											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	3044377	89381			18460	83163	86131	85559	85559	85559		3578189	
Gross Cost	272.1	19.7	0.0	0.0	3.9	15.1	13.9	14.0	14.2	14.3	0.0	367.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	272.1	19.7	0.0	0.0	3.9	15.1	13.9	14.0	14.2	14.3	0.0	367.2	
Initial Spares													
Total Proc Cost	272.1	19.7	0.0	0.0	3.9	15.1	13.9	14.0	14.2	14.3	0.0	367.2	
Flwyway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

This cartridge is used for simulated firing in training maneuvers and for saluting purposes in the M16 Series Rifle and Squad Automatic Weapon. A blank-firing attachment on the weapon is required for firing automatic or semi-automatic weapons. The cartridge can be identified by the rose petal (rosette crimp) closure on the mouth and by the identification knurl about one-half inch from the base of the cartridge. The mouth of the cartridge is sealed and identified with lacquer. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Prior to 1977

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM BLANK M200 (E01100)			Weapon System Type:			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		AMMUNITION HARDWARE												
		Load, Assemble and Pack												
		Box Metal M2A1												
		Propellant WC814 (LB)												
		SubTotal AMMO Hardware												
		Production Support Costs												
		Production Engineering												
		Quality Assurance												
		Acceptance Testing												
		Interim Transportation												
		Industrial Stock Support												
		SubTotal Prod. Support												
		TOTAL												

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No:					Date:		February 1998				
PROCUREMENT OF AMMUNITION / 1 / Ammunition					P-1 Line Item Nomenclature: CTG 5.56MM BLANK M200 (E01100)						
WBS Cost Elements: Fiscal Years		Contractor and Location		Weapon System Type:		Location of PCO		Award Date		P-1 Line Item Nomenclature: CTG 5.56MM BLANK M200 (E01100)	
				Contract Method and Type							
Load, Assemble and Pack		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF IOC		IOC		Nov-93		Oct-94	
FY 94		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF IOC		IOC		Mar-98		Oct-98	
FY 98		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF IOC		IOC		Nov-98		Oct-99	
FY 99		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF IOC		IOC		Nov-98		Oct-99	
Box Metal M2A1		Brockway Standard Homerville, GA		C/FP IOC		IOC		Jan-94		Jul-94	
FY 94		TBS		C/FP IOC		IOC		May-98		Sep-98	
FY 98		TBS		C/FP IOC		IOC		Jan-99		Jul-99	
FY 99		TBS		C/FP IOC		IOC		Jan-99		Jul-99	
Propellant WC814 (LB)		Olin Corp St. Marks, FL		SS/FP IOC		IOC		Aug-94		Sep-94	
FY 94		Olin Corp St. Marks, FL		SS/FP IOC		IOC		Aug-98		Sep-98	
FY 98		Olin Corp St. Marks, FL		SS/FP IOC		IOC		Aug-98		Sep-98	
FY 99		Plant Procured		N/A		N/A		N/A		N/A	

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998		
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:		CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												Other Related Program Elements:			
Program Elements for Code B Items:												Code:	A		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog			
Proc Qty	177469	14347	18742	2560	41278	45497	51548	45075	45075	45075		486666			
Gross Cost	41.8	5.2	7.1	1.0	14.6	12.2	13.8	12.2	12.4	12.6	0.0	132.9			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	41.8	5.2	7.1	1.0	14.6	12.2	13.8	12.2	12.4	12.6	0.0	132.9			
Initial Spares															
Total Proc Cost	41.8	5.2	7.1	1.0	14.6	12.2	13.8	12.2	12.4	12.6	0.0	132.9			
Flwyway U/C															
Wpn Sys Proc U/C															

DESCRIPTION:

The 5.56mm blank M200 round is a standard blank cartridge currently used during training to simulate live-ammunition noises and flash. This round is linked in 200 round belts and loaded into a plastic ammunition container that attaches directly to the M249 Squad Automatic Weapon (SAW). Four plastic containers are packed in a PA108 container. The M249 SAW is a lightweight, belt-fed, one-man operable machine gun. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1982

Exhibit P-5, Weapon Ammo Cost Analysis				P-1 Line Item Nomenclature: CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)				Date: February 1998			
Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:							
Ammunition Cost Elements				FY 96				FY 97			
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000
AMMUNITION HARDWARE											
Load, Assemble and Pack				5149	18742	0.27	767	2560	41278	0.28	11729
Propellant WC814 (LB)				122	19	6.50	15	3	41	6.55	45497
Link M27				329	19492	0.02	39	2624	42103	0.02	0.26
SubTotal AMMO Hardware				5600			821				11729
Production Support Costs											
Production Engineering				174			38				201
Quality Assurance				8			1				4
Acceptance Testing				64			9				
Interim Transportation				21			8				
Industrial Stock Support				231			23				235
CAWCF Gain/Loss Surcharge				1024			99				
SubTotal Prod. Support				1522			178				440
TOTAL				7122			999				12169
							0.38			0.35	0.27

Exhibit P-5a, Budget Procurement History and Planning																																		
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition					P-1 Line Item Nomenclature: CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)																													
WBS Cost Elements: Fiscal Years					Date: February 1998																													
Contractor and Location					Weapon System Type:																													
Contract Method and Type					Location of PCO																													
Award Date					Date of First Delivery																													
QTY					Unit Cost \$																													
Specs Avail Now?					Date RFP Issue Date																													
Load, Assemble and Pack FY 96					Feb-96					Oct-96					18742					0.27										Dec-96				
FY 97					Feb-97					Aug-98					2560					0.30					Yes					Oct-97				
FY 98					Jan-98					Oct-98					41278					0.28					Yes					Oct-98				
FY 99***					Nov-98					Oct-99					45497					0.26					Yes					Oct-98				
Propellant WC814 (LB) FY 96					Apr-96					Sep-96					19					6.50										May-97				
FY 97					Jul-97					Dec-97					3					5.83					Yes					Oct-97				
FY 98					Aug-98					Sep-98					41					6.55					Yes					Oct-97				
FY 99					N/A					N/A					N/A					N/A					N/A					N/A				
Link M27 FY 96					Apr-96					Aug-96					19492					0.02										Apr-97				
FY 97					Jun-97					Sep-97					2624					0.02					Yes					Oct-97				
FY 98					Mar-98					Aug-98					42103					0.02					Yes					Oct-97				
FY 99					N/A					N/A					N/A					N/A					N/A					N/A				
REMARKS: ***Complete Round TBS - To Be Selected																																		

Exhibit P-40, Budget Item Justification Sheet										Date: February 1998	
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:							
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG 5.56MM BALL M855 LINKED F/SAW (E04603)							
Program Elements for Code B Items:				Other Related Program Elements:							
				Code:	A						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete
Proc Qty	37885	491	7550		9582	16518	12038	12048	12048	12048	Total Prog
Gross Cost	11.5	0.2	4.3	0.0	4.3	5.5	4.1	4.2	4.2	4.3	120208
Less PY Adv Proc											42.6
Plus CY Adv Proc											
Net Proc (P-1)	11.5	0.2	4.3	0.0	4.3	5.5	4.1	4.2	4.2	4.3	0.0
Initial Spares											
Total Proc Cost	11.5	0.2	4.3	0.0	4.3	5.5	4.1	4.2	4.2	4.3	0.0
Flyaway U/C											
Wpn Sys Proc U/C											
DESCRIPTION:											
The Squad Automatic Weapon (SAW) ball round, M855, has a steel, conical insert in the ogive of the bullet. This round will be linked in 200 round belts using the M27 link. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.											
JUSTIFICATION:											
This is a training unique item; not used in combat. This round is used primarily for training in areas where a fire hazard exists if the tracer round were to be used. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.											
TYPE CLASSIFICATION DATE:											
1982											

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM BALL M855 LINKED F/SAW (E04603)			Weapon System Type:		Date: February 1998			
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		AMMUNITION HARDWARE												
		Load, Assemble and Pack	3039	7550	0.40				3280	9582	0.34	5349	16518	0.32
		Propellant WC844 (LB)	194	30	6.42				251	38	6.55			
		Link M27	128	7739	0.02				163	9774	0.02			
		SubTotal AMMO Hardware	3361						3694			5349		
		Production Support Costs												
		Production Engineering	104						378			46		
		Quality Assurance	5						9			4		
		Acceptance Testing	39						42					
		Interim Transportation	13						27					
		Industrial Stock Support	168						131			107		
		CAWCF Gain/Loss Surcharge	614											
		SubTotal Prod. Support	943						587			157		
		TOTAL	4304		0.57				4281		0.45	5506		0.33

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			Weapon System Type:			P-1 Line Item Nomenclature: CTG 5.58MM BALL M855 LINKED F/SAW (EQ4603)					
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Load, Assemble and Pack		Olin Corp (Lake City AAP) Independence, MO Olin Corp (Lake City AAP) Independence, MO Olin Corp (Lake City AAP) Independence, MO	SS/CPAF	IOC	Jun-96	Oct-96	7550	0.40			
FY 96											Oct-97
FY 98											
FY 99			SS/CPAF	IOC	Nov-98	Oct-99	16518	0.32	Yes		Oct-98
Propellant WC844 (LB)		Olin Corp St. Marks, FL Olin Corp St. Marks, FL Plant Procured	SS/FP	IOC	Sep-96	Sep-96	30	6.42			
FY 96											Oct-97
FY 98											
FY 99			N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
Link M27		Valentec Wells Costa Mesa, CA TBS Plant Procured	C/FP	IOC	Sep-96	Sep-96	7739	0.02			
FY 96											Oct-97
FY 98											N/A
FY 99			C/FP	IOC	Mar-98	Aug-98	9774	0.02	Yes		
			N/A	N/A	N/A	N/A	N/A	N/A	N/A		
REMARKS: TBS - To Be Selected											

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 5.56MM 4 BALL M855/1 TRACER M856 F/S (E04604)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: A													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	269226	18272		36704		27514	35000	37300	37700	37700		499416	
Gross Cost	96.0	9.3	0.7	19.1	0.0	9.9	13.0	14.1	14.4	14.5	0.0	191.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	96.0	9.3	0.7	19.1	0.0	9.9	13.0	14.1	14.4	14.5	0.0	191.0	
Initial Spares													
Total Proc Cost	96.0	9.3	0.7	19.1	0.0	9.9	13.0	14.1	14.4	14.5	0.0	191.0	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The M855 ball and M856 tracer rounds are linked for use in the lightweight, one-man operable M249 Squad Automatic Weapon (SAW). The ball round has a steel, conical insert in the ogive of the bullet, which increases helmet penetration substantially compared to the 5.56mm, M193 ball round. The tracer round M856 has a longer tracer column and an improved pyrotechnic mixture, which results in an increased daylight trace range compared to the 5.56mm M196 tracer round. The rounds are linked in a 200 round belt using the M27 link and are loaded into a plastic container which attaches directly to the M249 SAW. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1982

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: CTG 5.56MM 4 BALL M855/F TRACER M856 F/S (E04604)		Weapon System Type:		Date: February 1998	
ID	CD	Ammunition Cost Elements	FY 96		FY 97		FY 98		FY 99	
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000
		AMMUNITION HARDWARE								
		Load, Assemble and Pack			0.40					
		Propellant WC844T (LB)		36704	5.83					
		Propellant WC844 (LB)		29	5.83					
		Link M27		121	0.02					
			14803							
			171							
			706							
			564							
		SubTotal AMMO Hardware	16244						9737	27514
		Production Support Costs								
		Production Engineering								
		Quality Assurance	598						84	
		Acceptance Testing	23						4	
		Interim Transportation	177							
		Industrial Stock Support	154						72	
		CAWCF Gain/Loss Surcharge	1891							
		SubTotal Prod. Support	2843						160	
		Nonrecurring								
		Materiel Change	700							
		Subtotal Nonrecurring	700							
		TOTAL	700		0.52				9897	0.36

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No:					Weapon System Type:			Date: February 1998				
PROCUREMENT OF AMMUNITION / 1 / Ammunition					P-1 Line Item Nomenclature: CTG 5.56MM 4 BALL M855/1 TRACER M856 F/S (E04604)							
WBS Cost Elements:		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Fiscal Years												
Load, Assemble and Pack		Olin Corp (Lake City AAP)		SS/CPAF	IOC	Dec-94	Feb-96	18449	0.37			
FY 95		Independence, MO										
FY 95		Olin Corp (Lake City AAP)		SS/CPAF	IOC	Dec-97	Oct-98	888	0.38			
FY 97		Independence, MO										
FY 97		Olin Corp (Lake City AAP)		SS/CPAF	IOC	Jan-97	May-97	36704	0.40	Yes		Nov-96
FY 99***		Independence, MO										
FY 99		Olin Corp (Lake City AAP)		SS/CPAF	IOC	Nov-98	Oct-99	27514	0.35	Yes		Oct-98
Independence, MO												
Propellant WC844T (LB)		Olin Corp		SS/FP	IOC	Aug-95	Jan-96	14	6.28			
FY 95		St. Marks, FL										
FY 95		Olin Corp		SS/FP	IOC	Aug-98	Sep-98	1	6.55			
FY 97		St. Marks, FL										
FY 97		Olin Corp		SS/FP	IOC	Mar-97	Apr-97	29	5.83	Yes		Jan-97
FY 99		St. Marks, FL										
FY 99		Plant Procured		N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
Propellant WC844 (LB)		Olin Corp		SS/FP	IOC	Aug-95	Jan-96	61	6.28			
FY 95		St. Marks, FL										
FY 95		Olin Corp		SS/FP	IOC	Aug-98	Sep-98	3				
FY 97		St. Marks, FL										
FY 97		Olin Corp		SS/FP	IOC	Mar-97	Apr-97	121	5.83	Yes		Jan-97
FY 99		St. Marks, FL										
FY 99		Plant Procured		N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
REMARKS:												
***Complete Round												

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998									
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:																	
PROCUREMENT OF AMMUNITION / 1 / Ammunition		CTG 5.56MM 4 BALL M855/1 TRACER M856 F/S (E04604)																	
WBS Cost Elements:		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY x1000		Unit Cost \$		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
Fiscal Years		Contractor and Location																	
Link M27		Valentec Wells		IOC		Dec-94		Jul-95		1919		0.02							
FY 95		Costa Mesa, CA																	
FY 95		Valentec Wells		IOC		Mar-98		Aug-98		906		0.02							
		Costa Mesa, CA																	
FY 97		Valentec Wells		IOC		Jan-97		Apr-97		37621		0.02		Yes				Nov-96	
FY 99		Cost Mesa, CA				N/A		N/A		N/A		N/A		N/A				N/A	
		Plant Procured																	
REMARKS:																			

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 5.56MM BALL M855 FM16A2 (E04601)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	697228	127443	115870	42984	102149	97594	130000	130000	130000	130000		1703268	
Gross Cost	152.2	47.2	45.2	16.8	37.2	28.7	35.6	36.1	36.6	37.0	0.0	472.6	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	152.2	47.2	45.2	16.8	37.2	28.7	35.6	36.1	36.6	37.0	0.0	472.6	
Initial Spares													
Total Proc Cost	152.2	47.2	45.2	16.8	37.2	28.7	35.6	36.1	36.6	37.0	0.0	472.6	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The M855 ball has a steel conical insert in the ogive of the bullet which increases the helmet-penetration range substantially compared to the 5.56mm M193 ball round. This cartridge is identified by a green bullet tip and is intended for use against personnel and non-armored targets. This item is used in the M16A2 rifle. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1982

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM BALL M855 FM16A2 (E04601)			Weapon System Type:			Date: February 1998		
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE														
		Load, Assemble and Pack	31714	115870	0.27	12857	42984	0.30	28745	102149	0.28	25228	97594	0.26
		Box Metal M2A1	794	141	5.62	266	52	5.07	715	125	5.74	663	119	5.57
		Propellant WC844 (LB)	3011	463	6.50	1002	172	5.83	2678	409	6.55			
SubTotal AMMO Hardware			35519			14125			32138			25891		
Production Support Costs														
		Production Engineering												
		Quality Assurance	1101			670			3284			2258		
		Acceptance Testing	50			20			80			2		
		Interim Transportation	408			154			370					
		Industrial Stock Support	135			134			231			10		
		CAWCF Gain/Loss Surcharge	1483			1661			1138			518		
			6493											
SubTotal Prod. Support			9670			2639			5103			2788		
TOTAL			45189		0.39	16764		0.39	37241		0.36	28679		0.29

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No:										P-1 Line Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition										CTG 5.56MM BALL M855 F/M16A2 (E04601)	
Weapon System Type:											
WBS Cost Elements:	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date		
Fiscal Years	Contractor and Location										
Load, Assemble and Pack											
FY 96	Olin Corp (Lake City AAP)	IOC	Jan-96	Oct-96	115870	0.27					
FY 97	Independence, MO										
	Olin Corp (Lake City AAP)	IOC	Jan-97	Oct-97	42984	0.30	Yes				
FY 98	Independence, MO										
	Olin Corp (Lake City AAP)	IOC	Jan-98	Oct-98	102149	0.28	Yes				
FY 99	Independence, MO										
	Olin Corp (Lake City AAP)	IOC	Nov-98	Oct-99	97594	0.26	Yes				
	Independence, MO										
Box Metal M2A1											
FY 96	Brockway Standard	C/FP	Jun-96	Sep-96	141	5.62					
	Homerville, GA										
FY 97	Brockway Standard	C/FP	May-97	Sep-97	52	5.07	Yes				
	Homerville, GA										
FY 98	TBS	C/FP	Mar-98	Sep-98	125	5.74	Yes				
FY 99	TBS	C/FP	Jan-99	Jul-99	119	5.57	Yes				
Propellant WC844 (LB)											
FY 96	Olin Corp	SS/FP	Apr-96	Sep-96	463	6.50					
	St. Marks, FL										
FY 97	Olin Corp	SS/FP	Jul-97	Sep-97	172	5.83	Yes				
	St. Marks, FL										
FY 98	Olin Corp	SS/FP	Aug-98	Sep-98	409	6.55	Yes				
	St. Marks, FL										
FY 99	Plant Procured	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
REMARKS:											
TBS - To Be Selected											

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date:		February 1998								
PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Item Nonenclature:		CTG 5.56MM TRACER M856 FM16A2 (E04602)								
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
		A										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	79269		1491		6509	6287	6080	8060	8060	8060		123816
Gross Cost	23.1	0.0	0.9	0.0	3.5	2.5	2.5	3.3	3.4	3.4	0.0	42.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	23.1	0.0	0.9	0.0	3.5	2.5	2.5	3.3	3.4	3.4	0.0	42.6
Initial Spares												
Total Proc Cost	23.1	0.0	0.9	0.0	3.5	2.5	2.5	3.3	3.4	3.4	0.0	42.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The M856 tracer round has a longer tracer column and an improved pyrotechnic mixture, which results in an increased daylight trace range compared to the 5.56mm M196 tracer round. This cartridge can be identified by an orange bullet tip and is intended to permit visible observation of the bullet's in-flight path or trajectory to the point of impact. This item is used in the M16A2 rifle. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1982

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM TRACER M856 F/M16A2 (E04602)			Weapon System Type:			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		AMMUNITION HARDWARE												
		Load, Assemble and Pack	614	1491	0.41				2768	6509	0.43	2375	6287	0.38
		Box Metal M2A1	11	2	5.62				47	8	5.74	44	8	5.57
		Propellant WC844T (LB)	39	6	6.50				171	26	6.55			
		SubTotal AMMO Hardware	664						2986			2419		
		Production Support Costs												
		Production Engineering	21						305			54		
		Quality Assurance	1						7			5		
		Acceptance Testing	8						34					
		Interim Transportation	3						21			1		
		Industrial Stock Support	32						106			47		
		CAWCF Gain/Loss Surcharge	121											
		SubTotal Prod. Support	186						473			107		
		TOTAL	850		0.57				3459		0.53	2526		0.40

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No:				Weapon System Type:			P-1 Line Item Nomenclature:					
PROCUREMENT OF AMMUNITION / 1 / Ammunition							CTG 5.56MM TRACER M856 FM16A2 (E04602)					
WBS Cost Elements:		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years												
Load, Assemble and Pack		Olin Corp (Lake City AAP)		SS/CPAF	IOC	Feb-96	Oct-96	1491	0.41			
FY 96		Independence, MO										Oct-97
FY 98		Olin Corp (Lake City AAP)		SS/CPAF	IOC	Jan-98	Oct-98	6509	0.43	Yes		
FY 99		Independence, MO										
		Olin Corp (Lake City AAP)		SS/CPAF	IOC	Nov-98	Oct-99	6287	0.38	Yes		Oct-98
Box Metal M2A1		Brockway Standard		C/FP	IOC	Jun-96	Oct-96	2	5.62			
FY 96		Homerville, GA										
FY 98		TBS		C/FP	IOC	Mar-98	Aug-98	8	5.74	Yes		Oct-97
FY 99		TBS		C/FP	IOC	Jan-99	Jul-99	8	5.57	Yes		Oct-98
Propellant WC844T (LB)		Olin Corp		SS/FP	IOC	Apr-96	Sep-96	6	6.50			
FY 96		St. Marks, FL										Oct-97
FY 98		Olin Corp		SS/FP	IOC	Aug-98	Sep-98	26	6.55	Yes		
FY 99		St. Marks, FL										
		Plant Procured		N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
REMARKS:												
TBS - To Be Selected												

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No.												February 1998
PROCUREMENT OF AMMUNITION / 11 / Ammunition												
P-1 Item Nomenclature:												CTG 5.56mm RIFLE LAUNCHER, NON-LETHAL, XM95 (E91100)
Program Elements for Code B Items:												
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty						90	135	250	265			740
Gross Cost	0.0	0.0	0.0	0.0	0.0	3.3	4.3	6.5	6.7	0.0	0.0	20.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	3.3	4.3	6.5	6.7	0.0	0.0	20.8
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	3.3	4.3	6.5	6.7	0.0	0.0	20.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The 5.56MM Non-Lethal round is a muzzle-launched ordnance, propelled by the use of an M195 grenade impulse cartridge. It is compatible with both the M16A2 and M4 Carbine. The item consists of a muzzle attaching launch tube and a packaged stack of rubber balls (XM95) for its payload. The launched payload is intended to be non-lethal, low hazard and non-shrapnel producing, which upon impact, generates a temporary trauma to the body with the intent to confuse, disorient and/or momentarily distract/deter potential threat personnel. The Area Fire XM95 is an inert item, cylindrical in shape, with an overall length of 7 inches and a diameter of 2 inches. The payload is 15 rubber coated steel balls, each being approximately 0.7 (~11/16) inches in diameter. Propulsive energy is provided by using an M195 Impulse Cartridge. Ignition of the M195 Impulse Cartridge generates the gas energy to propel and disperse the rubber coated balls to a group target. The XM95 is a single shot disposable item. The item has not been transitioned to the SMCA and will be procured at actual cost beginning in FY 99.

JUSTIFICATION:
The FY 99 procurement will provide friendly forces with the capability to enforce a standoff distance from a crowd of belligerents at a range of 30-80 meters without using deadly force. There are currently no non-lethal munitions for the M16A2 and M4 weapon systems.

TYPE CLASSIFICATION DATE:
2nd Quarter 1998

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56mm RIFLE LAUNCHER, NON- LETHAL, XM95 (E91100)			Weapon System Type:		Date: February 1998	
Ammunition Cost Elements			FY 96		FY 97		FY 98		FY 99			
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$
		AMMUNITION HARDWARE										
		XM95 Non-Lethal Munition										24.89
		M195 Grenade Cartridges										1.50
		PA108 Containers										10.00
		Case, Small Arms										6.94
		SubTotal AMMO Hardware							2445			
		Production Support Costs										
		Production Engineering										300
		Quality Assurance										100
		Acceptance Testing										100
		Interim Transportation										30
		Repackaging Cost										115
		SubTotal Prod. Support							645			
		COST - Nonrecurring										
		Initial Production Test										150
		M195 Startup Cost										20
		SubTotal COST-Nonrecurring							170			
		TOTAL							3260			33.27

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
PROCUREMENT OF AMMUNITION / 1 / Ammunition		CTG 5.56mm RIFLE LAUNCHER, NON-LETHAL, XM95 (E91100)								
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
XM95 Non-Lethal Munition FY 99	Alliant Techsystems, MN	FFP	ARDEC	Nov-98	Jul-99	90000	24.89			
M195 Grenade Cartridges FY 99	Lake City AAP, MO	CPFF	IOC	Jan-99	Jun-99	100000	1.50			
PA108 Containers FY 99	Various	C/FP	IOC	Mar-99	Jun-99	3000	10.00			
Case, Small Arms FY 99	Various	FFP	IOC	Mar-99	Jun-99	3600	6.94			
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG. 7.62MM, ALL TYPES (E02000)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	1296.6	25.0	9.3	12.0	4.0	10.5	15.0	15.6	15.9	16.1	0.0	1420.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	1296.6	25.0	9.3	12.0	4.0	10.5	15.0	15.6	15.9	16.1	0.0	1420.0	
Initial Spares													
Total Proc Cost	1296.6	25.0	9.3	12.0	4.0	10.5	15.0	15.6	15.9	16.1	0.0	1420.0	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
This budget line includes 7.62MM ALL TYPES.													

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: CTG, 7.62MM, ALL TYPES (E02000)		Weapon System Type:		Date: February 1998	
Ammunition Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000
CTG 7.62MM 4 BALL/1 TRACER LINKED		3916	6526	0.60	8760	14600	0.60	4096	9859
CTG 7.62MM BALL M80 LINKED/M13		5361	9475	0.61	3205	5723	0.56	5747	17493
CTG 7.62MM BLANK M82 LINKED/M13								48	
CTG 7.62MM 4 BALL/1 TRACER F/OHF									
CTG 7.62MM SHORT RG TNG 4 BALL/1TR								572	320
XM973/XM974									1.79
TOTAL		9277			11965			10463	

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 7.62MM BALL M80 LINKED/M13 (E02003)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty	169471	6537	9475	5723	9859	8155	8152	8152	8152		238870		
Gross Cost	47.2	3.3	5.4	3.2	4.1	3.5	3.5	3.6	3.6	0.0	80.3		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	47.2	3.3	5.4	3.2	4.1	3.5	3.5	3.6	3.6	0.0	80.3		
Initial Spares													
Total Proc Cost	47.2	3.3	5.4	3.2	4.1	3.5	3.5	3.6	3.6	0.0	80.3		
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

This cartridge is for use in the Machine Gun Series M60, M73, M219, and M240. The straight ball M80 configuration is used in support of training. The bullet consists of a gilding-metal steel jacket with a lead-antimony slug. The cartridge case is brass and the bullet is unpainted. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1979

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 7.62MM BALL M80 LINKED/M13 (E02003)			Weapon System Type:			Date: February 1998		
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		AMMUNITION HARDWARE												
		Load, Assemble and Pack	247	545	0.45	2394	5723	0.42	2174	5194	0.42	4013	9859	0.41
		Propellant WC846 (LB)	24	4	6.50	230	39	5.83	235	36	6.55			
		Link M13	12	557	0.02	109	5837	0.02	113	5298	0.02			
		SubTotal AMMO Hardware	283			2733			2522			4013		
		Production Support Costs												
		Production Engineering	9			94			268			52		
		Quality Assurance				4			6			2		
		Acceptance Testing	3			30			29					
		Interim Transportation	1			26			18					
		Industrial Stock Support	12						90			29		
		CAWCF Gain/Loss Surcharge	52			318								
		SubTotal Prod. Support	77			472			411			83		
		TOTAL	360		0.66	3205		0.56	2933		0.56	4096		0.42

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 7.62MM BALL M80 LINKED/M13 (E02003)			Weapon System Type:		Date: February 1998	
Ammunition Cost Elements			FY 96		FY 97		FY 98		FY 99			
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	
		AMMUNITION HARDWARE										
		Load, Assemble and Pack	3735	8930	0.42							
		Propellant WC846 (LB)	359	62	5.83							
		Link M13	170	9108	0.02							
		SubTotal AMMO Hardware	4264									
		Production Support Costs										
		Production Engineering	148									
		Quality Assurance	6									
		Acceptance Testing	46									
		Interim Transportation	41									
		Industrial Stock Support										
		CAWCF Gain/Loss Surcharge	496									
		SubTotal Prod. Support	737									
		TOTAL	5001		0.56							

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No:				Weapon System Type:			P-1 Line Item Nomenclature:			Date: February 1998		
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG 7.62MM BALL M80 LINKED/M13 (E02003)								
WBS Cost Elements:		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years												
Load, Assemble and Pack		Olin Corp (Lake City AAP)		SS/CPAF	IOC	Feb-96	Oct-96	545	0.45			Oct-96
FY 96		Independence, MO										
FY 96		Olin Corp (Lake City AAP)		SS/CPAF	IOC	Oct-96	Apr-97	8930	0.42			
FY 97		Independence, MO										
FY 97		Olin Corp (Lake City AAP)		SS/CPAF	IOC	Jan-97	Apr-98	5723	0.42	Yes		Oct-96
FY 98		Independence, MO										
FY 98		Olin Corp (Lake City AAP)		SS/CPAF	IOC	Feb-98	Oct-98	5194	0.42	Yes		Nov-96
FY 99***		Independence, MO										
FY 99***		Olin Corp (Lake City AAP)		SS/CPAF	IOC	Jan-99	Oct-99	9859	0.41	Yes		Oct-98
FY 99***		Independence, MO										
Propellant WC846 (LB)		Olin Corp		SS/FP	IOC	Aug-96	Sep-96	4	6.50			
FY 96		St. Marks, FL										
FY 96		Olin Corp		SS/FP	IOC	Nov-96	Jan-97	62	5.83			
FY 96		St. Marks, FL										
FY 97		Primex		SS/FP	IOC	Aug-97	Sep-97	39	5.83	Yes		Jun-97
FY 97		St. Marks, FL										
FY 98		Primex		SS/FP	IOC	Aug-97	Sep-97	36	6.55	Yes		Oct-97
FY 98		St. Marks, FL										
FY 99		Plant Procured		N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
REMARKS: *** Complete Round												

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:										February 1998
P-1 Line Item Nomenclature:										
CTG 7.62MM BALL M80 LINKED/M13 (E02003)										
Weapon System Type:										
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Reven Avail	RFP Issue Date
Link M13	Valentec Wells	C/FP	IOC	Mar-96	Sep-96	557	0.02			
FY 96	Costa Mesa, Ca									
FY 96	Valentec Wells	C/FP	IOC	Nov-96	Mar-97	9108	0.02			
FY 97	Costa Mesa, Ca									
FY 97	Valentec Wells	C/FP	IOC	Sep-97	Oct-97	5837	0.02	Yes		Jul-97
FY 98	Costa Mesa, Ca									
FY 98	TBS	C/FP	IOC	Mar-98	Sep-98	5298	0.02	Yes		Oct-97
FY 99	Plant Procured	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
REMARKS: TBS - To Be Selected										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature: CTG 7.62MM BALL M80 LINKED/M13 (E02003)										Date: February 1998																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No.												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
Program Elements for Code B Items:												CTG 7.62MM BLANK M82 LINKED/M13 (E01902)
Other Related Program Elements:												
Code: A												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	1902583				904	17493	20000	20000	20000	20000		2000980
Gross Cost	232.6	0.0	0.0	0.0	0.5	5.7	6.7	6.8	6.9	7.0	0.0	266.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	232.6	0.0	0.0	0.0	0.5	5.7	6.7	6.8	6.9	7.0	0.0	266.2
Initial Spares												
Total Proc Cost	232.6	0.0	0.0	0.0	0.5	5.7	6.7	6.8	6.9	7.0	0.0	266.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

This cartridge consists of a primer and propellant contained in a brass case shaped to conform to the configuration of the service round. The propellant is held in by a wad. The mouth of the cartridge is sealed and crimped. The Blank Firing Attachment (BFA) M21 is installed on the M240 Machine Gun to enable blank ammunition to be fired and to provide back pressure to sustain continuous firing. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1958

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 7.62MM BLANK M82 LINKED/M13 (E01902)			Weapon System Type:		Date: February 1998			
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		AMMUNITION HARDWARE												
		Load, Assemble and Pack							374	904	0.41	5524	17493	0.32
		Link M13							20	922	0.02			
		Propellant WC818 (LB)							17	3	6.55			
		SubTotal AMMO Hardware							411			5524		
		Production Support Costs												
		Production Engineering							44			180		
		Quality Assurance							1			5		
		Acceptance Testing							5					
		Interim Transportation							3			38		
		Industrial Stock Support							13					
		SubTotal Prod. Support							66			223		
		TOTAL							477		0.53	5747		0.33

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No:					Date:		February 1998					
PROCUREMENT OF AMMUNITION / 1 / Ammunition					P-1 Line Item Nomenclature: CTG 7.62MM BLANK M82 LINKED/M13 (E01902)							
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble and Pack FY 94		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF	IOC	Jan-94	Oct-94	24193	0.28			
FY 98		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF	IOC	Feb-98	Oct-98	904	0.41	Yes		Oct-97
FY 99***		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF	IOC	Nov-98	Oct-99	17493	0.32	Yes		Oct-98
Link M13 FY 94		Valentec Wells Costa Mesa, CA		C/FP	IOC	Jan-94	Jun-94	24677	0.02			
FY 98		TBS		C/FP	IOC	Jan-98	Jun-98	922	0.02	Yes		Oct-97
FY99		Plant Procured		N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
Propellant WC818 (LB) FY 94		Olin Corp St. Marks, FL		SS/FP	IOC	Aug-94	Sep-94	56	5.98			Oct-97
FY 98		Olin Corp St. Marks, FL		SS/FP	IOC	Aug-98	Sep-98	3	6.55	Yes		Oct-97
FY 99		Plant Procured		N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
REMARKS: ***Complete Round TBS - To Be Selected												

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No.												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
P-1 Item Nomenclature:												CTG 7.62MM 4 BALL/1 TRACER LINKED (E02002)
Program Elements for Code B Items:												
Other Related Program Elements:												
Code: A												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	820668	24242	6526	14600								866036
Gross Cost	234.4	13.1	3.9	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	260.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	234.4	13.1	3.9	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	260.2
Initial Spares												
Total Proc Cost	234.4	13.1	3.9	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	260.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

This item consists of ball and tracer rounds linked four to one and is used in Machine Guns Series M60 and M240. It is intended for use against personnel and non-armor targets. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training standard item used in both training and combat. Procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1957

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 7.62MM 4 BALL/1 TRACER LINKED (EO2002)				Weapon System Type:		Date: February 1998	
Ammunition Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE														
		Load, Assemble and Pack	2937	6526	0.45	6570	14600	0.45						
		Link M13	124	6657	0.02	278	14892	0.02						
		Propellant WC846 (LB)	213	37	5.83	476	82	5.83						
		Propellant WC846T (LB)	53	9	5.83	119	20	5.83						
SubTotal AMMO Hardware			3327			7443								
Production Support Costs														
		Production Engineering	128			286								
		Quality Assurance	5			10								
		Acceptance Testing	36			81								
		Interim Transportation	32			71								
		Industrial Stock Support				1								
		CAWCF Gain/Loss Surcharge	388			868								
SubTotal Prod. Support			589			1317								
TOTAL			3916		0.60	8760		0.60						

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										CTG, 9MM, ALL TYPES (EA3000)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	49.5	1.6	4.6	1.0	4.1	1.9	2.7	2.8	2.8	2.8	0.0	73.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	49.5	1.6	4.6	1.0	4.1	1.9	2.7	2.8	2.8	2.8	0.0	73.8	
Initial Spares													
Total Proc Cost	49.5	1.6	4.6	1.0	4.1	1.9	2.7	2.8	2.8	2.8	0.0	73.8	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

This budget line includes 9MM ALL TYPES.

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, 9MM, ALL TYPES (EA3000)			Weapon System Type:			Date: February 1998		
ID	CO	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty x1000	UnitCost \$	TotalCost \$000	Qty x1000	UnitCost \$	TotalCost \$000	Qty x1000	UnitCost \$	TotalCost \$000	Qty x1000	UnitCost \$
		CTG 9MM BALL M882	4580	30872	0.15	999	7684	0.13	4135	27444	0.15	1907	12715	0.15
TOTAL			4580			999			4135			1907		

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 9MM BALL M882 (E05210)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	109757	9848	30872	7684	27444	12715	18450	18450	18450	18450		272120	
Gross Cost	15.6	1.6	4.6	1.0	4.1	1.9	2.7	2.8	2.8	2.8	0.0	39.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	15.6	1.6	4.6	1.0	4.1	1.9	2.7	2.8	2.8	2.8	0.0	39.9	
Initial Spares													
Total Proc Cost	15.6	1.6	4.6	1.0	4.1	1.9	2.7	2.8	2.8	2.8	0.0	39.9	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

This round consists of a brass case, a jacketed lead bullet, a two-piece boxer-type primer, and a double base propellant. The cartridge 9mm, ball M882 conforms to all United States requirements and NATO standardization agreement (STANAG) 4090 for 9mm ammunition. Its primary usage is with the M9 personal defense weapon (PDW) and is compatible with all NATO 9mm weapons. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1985

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 9MM BALL M882 (E05210)			Weapon System Type:			Date: February 1998		
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE														
		Load, Assemble and Pack	3455	30872	0.11	756	7684	0.10	3395	27444	0.12	1685	12715	0.13
		Box Metal M2A1	177	31	5.62	40	8	5.07	161	28	5.74	72	13	5.57
SubTotal AMMO Hardware			3632			796			3556			1757		
Production Support Costs														
		Production Engineering	113			57			378			139		
		Quality Assurance	5			1			9			2		
		Acceptance Testing	42			9			41					
		Interim Transportation	14			8			26			1		
		Industrial Stock Support	110			31			125			8		
		CAWCF Gain/Loss Surcharge	664			97								
SubTotal Prod. Support			948			203			579			150		
TOTAL			4580		0.15	999		0.13	4135		0.15	1907		0.15

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG 9MM BALL M882 (E05210)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
Load, Assemble and Pack FY 96	Olin Corp East Alton, IL	C/FP	IOC	Jan-96	Feb-96	30872	0.11	Yes		
FY 97	Olin Corp East Alton, IL	C/FP	IOC	May-97	Jul-97	7684	0.10	Yes		Oct-96
FY 98	TBS	C/FP	IOC	Mar-98	Jul-98	27444	0.12	Yes		Oct-97
FY 99	TBS	C/FP	IOC	Jan-99	Jul-99	12715	0.13	Yes		Oct-98
Box Metal M2A1 FY 96	Brockway Standard Homerville, GA	C/FP	IOC	Jul-95	Jan-96	31	5.62	Yes		
FY 97	Brockway Standard Homerville, GA	C/FP	IOC	Mar-96	Jun-97	8	5.07	Yes		Oct-96
FY 98	TBS	C/FP	IOC	Feb-98	Jun-98	28	5.74	Yes		Oct-97
FY 99	TBS	C/FP	IOC	Jan-99	Jun-99	13	5.57	Yes		Oct-98
REMARKS: TBS - To Be Selected										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature: CTG 9MM BALL M882 (E05210)										Date: February 1998																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 11 / Ammunition												CTG .45 CAL ALL TYPES (ER8110)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	56.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	56.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	56.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	56.7	
Initial Spares													
Total Proc Cost	56.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	56.7	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
This budget line includes .45 CAL ALL TYPES.													

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG .45 CAL. ALL TYPES (ER8110)			Weapon System Type:			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		CTG CAL .45 MATCH GRADE							72	363	0.20	2		
TOTAL									72			2		

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date:		February 1998								
PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Item Nomenclature:		CTG. 50 CAL. ALL TYPES (E08000)								
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	383.1	0.0	26.5	4.9	19.7	18.5	18.8	20.9	22.7	25.4	0.0	540.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	383.1	0.0	26.5	4.9	19.7	18.5	18.8	20.9	22.7	25.4	0.0	540.5
Initial Spares												
Total Proc Cost	383.1	0.0	26.5	4.9	19.7	18.5	18.8	20.9	22.7	25.4	0.0	540.5
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												
This budget line includes .50 CAL ALL TYPES.												

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1999
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG CAL .50 BALL M33 WM9 LINK (E07100)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	34081				489	2649	2597	2568	2596	2594		47574	
Gross Cost	43.8	0.0	0.0	0.0	0.9	3.7	3.7	3.7	3.7	3.8	0.0	63.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	43.8	0.0	0.0	0.0	0.9	3.7	3.7	3.7	3.7	3.8	0.0	63.3	
Initial Spares													
Total Proc Cost	43.8	0.0	0.0	0.0	0.9	3.7	3.7	3.7	3.7	3.8	0.0	63.3	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The caliber .50 ball M33 is linked with the M9 links for use in Army training with caliber .50 machine guns, M2 and M3. These rounds are also used in function test firing of the M2 and M3 machine guns. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1951

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG CAL .50 BALL M33 WM9 LINK (E07100)			Weapon System Type:			Date: February 1998		
ID CD	Ammunition Cost Elements		FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
	AMMUNITION HARDWARE													
	Load, Assemble and Pack													
	Box Metal M2A1								630	489	1.29	3363	2649	1.27
	Link M9								29	5	5.74	150	27	5.57
	Propellant WC860 (LB)								33	494	0.07			
									110	17	6.55			
	SubTotal AMMO Hardware								802			3513		
	Production Support Costs													
	Production Engineering								82			105		
	Quality Assurance								2			3		
	Acceptance Testing								9					
	Interim Transportation								6			2		
	Industrial Stock Support								28			71		
	CAWCF Gain/Loss Surcharge													
	SubTotal Prod. Support								127			181		
	TOTAL								929		1.90	3694		1.39

Exhibit P-5a, Budget Procurement History and Planning													
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition					Weapon System Type:					P-1 Line Item Nomenclature: CTG CAL .50 BALL M33 W/M9 LINK (E07100)			Date: February 1998
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Load, Assemble and Pack FY 94		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF IOC	IOC	Nov-93	Oct-94	6523	1.05			Oct-97	
FY 98		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF IOC	IOC	Dec-97	Jun-98	489	1.29	Yes		Oct-98	
FY 99		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF IOC	IOC	Nov-98	Oct-99	2649	1.27	Yes			
Box Metal M2A1 FY 94		Brockway Standard Homerville, GA		C/FP IOC	IOC	Jan-94	Jul-94	67	5.68			Oct-97	
FY 98		Brockway Standard Homerville, GA		C/FP IOC	IOC	Dec-97	Mar-98	5	5.74	Yes		Oct-98	
FY 99		TBS		C/FP IOC	IOC	Jan-99	Jul-99	27	5.57	Yes			
Link M9 FY 94		Valentec Wells Costa Mesa, CA		C/FP IOC	IOC	Jan-94	Jul-94	6653	0.07				
FY 98		Valentec Wells Costa Mesa, CA		C/FP IOC	IOC	Jan-98	May-98	494	0.07	Yes		Oct-97	
FY 99		Plant Procured		N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	
REMARKS: TBS - To Be Selected													

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:										February 1998
P-1 Line Item Nomenclature:										
CTG CAL 50 BALL M33 WIMB LINK (E07100)										
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Propellant WC860 (LB) FY 94	Olin Corp St. Marks, FL	SS/FP	IOC	Aug-94	Sep-94	18	5.98			
FY 98	Olin Corp St. Marks, FL	SS/FP	IOC	Jan-98	May-98	17	6.55	Yes		Oct-97
FY 99	Plant Procured	NA	NA	NA	NA	NA	NA	NA		NA
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
Program Elements for Code B Items:												CTG CAL 50 4 BALL/1 TRACER WM9 LINK (E07200)
Code:												Other Related Program Elements:
A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	379168	8298	2070	7539	9325	9281	9281	9281	9281		443524	
Gross Cost	258.4	24.5	4.9	15.8	14.9	15.1	15.1	15.3	15.5	0.0	379.5	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	258.4	24.5	4.9	15.8	14.9	15.1	15.1	15.3	15.5	0.0	379.5	
Initial Spares												
Total Proc Cost	258.4	24.5	4.9	15.8	14.9	15.1	15.1	15.3	15.5	0.0	379.5	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

This item consists of M33 ball and M17 tracer linked 4 to 1 with the M9 link. These cartridges in the linked configuration are for training use in either vehicle mounted or ground mounted machine guns. The tracer round permits observation of the bullet's trajectory to the point of impact. The ammunition is designed for use in the M2 or M3 machine guns. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1968

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)			Weapon System Type:			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		AMMUNITION HARDWARE												
		Load, Assemble and Pack	15450	8011	1.93	3380	2070	1.63	10510	7539	1.39	12887	9325	1.38
		Box Metal M2A1	459	82	5.62	107	21	5.07	441	77	5.74	529	95	5.57
		Link M9	521	8083	0.06	118	2088	0.06	502	7606	0.07			
		Propellant WC860 (LB)	1473	227	6.50	341	59	5.83	1359	207	6.56			
		Prop IMR 5010 (LB)	813	54	15.15	246	14	17.74	793	54	14.61	960	67	14.29
		SubTotal AMMO Hardware	18716			4192			13605			14376		
		Production Support Costs												
		Production Engineering	547			173			1390			160		
		Quality Assurance	26			6			34			4		
		Acceptance Testing	215			46			156			22		
		Interim Transportation	71			40			98			288		
		Industrial Stock Support	797						483					
		CAWCF Gain/Loss Surcharge	3421			490						474		
		SubTotal Prod. Support	5077			755			2161					
		TOTAL	23793		2.97	4947		2.39	15766		2.09	14850		1.59

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG CAL 50 4 BALL/1 TRACER WM9 LINK (E07200)			Weapon System Type:			Date: February 1998		
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE														
		Load, Assemble and Pack	469	287	1.63									
		Box Metal M2A1	15	3	5.07									
		Link M9	16	290	0.06									
		Propellant WC860 (LB)	47	8	5.83									
		Prop IMR 5010 (LB)	34	2	17.74									
SubTotal AMMO Hardware			581											
Production Support Costs														
		Production Engineering	24											
		Quality Assurance	1											
		Acceptance Testing	6											
		Interim Transportation	6											
		Industrial Stock Support												
		CAWCF Gain/Loss Surcharge	68											
SubTotal Prod. Support			105											
TOTAL			686		2.39									

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No:			Weapon System Type:			P-1 Line Item Nomenclature:			Date:		
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)			February 1998		
WBS Cost Elements:	Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Load, Assemble and Pack	FY 96	Olin Corp (Lake City AAP) Independence, MO	SS/CPAF IOC		Jan-96	Oct-96	8011	1.93			
	FY 96	Olin Corp (Lake City AAP) Independence, MO	SS/CPAF IOC		Mar-97	Oct-97	287	1.63			
	FY 97	Olin Corp (Lake City AAP) Independence, MO	SS/CPAF IOC		Jan-97	Oct-97	2070	1.63	Yes		Oct-96
	FY 98	Olin Corp (Lake City AAP) Independence, MO	SS/CPAF IOC		Dec-97	Apr-98	7539	1.39	Yes		Oct-97
	FY 99	Olin Corp (Lake City AAP) Independence, MO	SS/CPAF IOC		Nov-98	Oct-99	9325	1.38	Yes		Oct-98
Box Metal M2A1											
FY 96		Brockway Standard Homerville, GA	C/FP IOC		Jun-96	Sep-96	82	5.62			Feb-97
FY 96		Brockway Standard Homerville, GA	C/FP IOC		Apr-97	Sep-97	3	5.07			Oct-97
FY 97		Brockway Standard Homerville, GA	C/FP IOC		May-97	Sep-97	21	5.07	Yes		Oct-97
FY 98		Brockway Standard Homerville, GA	C/FP IOC		Dec-97	Mar-98	77	5.74	Yes		Oct-97
FY 99		Brockway Standard Homerville, GA TBS	C/FP IOC		Jan-99	Jul-99	95	5.57	Yes		Oct-98
REMARKS: TBS - To Be Selected											

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No:				Weapon System Type:			P-1 Line Item Nomenclature:					
PROCUREMENT OF AMMUNITION / 1 / Ammunition							CTG CAL .50 4 BALL/1 TRACER WM9 LINK (E07200)					
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Link M9		Valentec Wells		C/FP	IOC	Jun-96	Sep-96	8083	0.06			Oct-96
FY 96		Costa Mesa, CA										
FY 96		Valentec Wells		C/FP	IOC	Apr-97	Jul-97	290	0.06			Oct-97
FY 97		Costa Mesa, CA										
FY 97		Valentec Wells		C/FP	IOC	Feb-97	Aug-97	2088	0.06	Yes		N/A
FY 98		Costa Mesa, CA										
FY 98		Valentec Wells		C/FP	IOC	Jan-98	Mar-98	7606	0.07	Yes		Oct-97
FY 99		Costa Mesa, CA										
FY 99		Plant Procured		N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
Propellant WC860 (LB)		Olin Corp		SS/FP	IOC	Apr-96	Jun-96	227	6.50			May-97
FY 96		St. Marks, FL										
FY 96		Olin Corp		SS/FP	IOC	Aug-97	Sep-97	8	5.83			Oct-97
FY 97		St. Marks, FL										
FY 97		Olin Corp		SS/FP	IOC	Aug-97	Sep-97	59	5.83	Yes		N/A
FY 98		St. Marks, FL										
FY 98		Olin Corp		SS/FP	IOC	Jan-98	Mar-98	207	6.55	Yes		Oct-97
FY 99		St. Marks, FL										
FY 99		Plant Procured		N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
REMARKS:												

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No.		Weapon System Type		P-1 Line Item Nomenclature:							
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG CAL 50 4 BALL/1 TRACER W/M9 LINK (E07200)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Fiscal Years											
Prop IMR 5010 (LB)											
FY 96	Alliant Tech Sys (Radford AAP) Radford, VA	SS/FP	IOC	Sep-96	Sep-96	54	15.15				
FY 96	Alliant Tech Sys (Radford AAP) Radford, VA	SS/FP	IOC	Aug-97	Sep-97	2	17.74				
FY 97	Alliant Tech Sys (Radford AAP) Radford, VA	SS/FP	IOC	Aug-97	Sep-97	14	17.74	Yes		May-97	
FY 98	Alliant Tech Sys (Radford AAP) Radford, VA	SS/FP	IOC	Jan-98	Mar-98	54	14.61	Yes		Oct-97	
FY 99	Alliant Tech Sys (Radford AAP) Radford, VA	SS/FP	IOC	Aug-99	Sep-99	67	14.29	Yes		Oct-98	
REMARKS:											

FY 98 / 99 BUDGET PRODUCTION SCHEDULE															P-1 Item Nomenclature: CTG CAL 50 4 BALL/1 TRACER WIM9 LINK (E07200)															Date: February 1998															
															Fiscal Year 98															Fiscal Year 99															L A T E R
															Calendar Year 98															Calendar Year 99															
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Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No.												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 11 / Ammunition												CTG CAL. 50 SLAPT M903 (M962 TRACER) (F88000)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	605		194							250		1049	
Gross Cost	5.0	0.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	12.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	5.0	0.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	12.3	
Initial Spares													
Total Proc Cost	5.0	0.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	12.3	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The Caliber, Saboted Light Armor Penetrator (SLAP), M903 cartridge consists of a heavy metal penetrator which is sabot launched at a much higher velocity than standard rounds, with Tracer, M962. The sabot, which is designed to break up at the muzzle to release the penetrator, must also survive the gun environment until launch. It is injection molded of special high strength plastic and is reinforced with an aluminum insert in the base section. The tungsten alloy penetrator has a slot in the base to insure full spin-up before separation from the sabot at the muzzle. The companion tracer cartridge, M962, consists of a tungsten alloy penetrator of the same mass as the M903 and is launched from a sabot of the same material and similar design. The penetrator base is cored out to accommodate a trace mix composition. This ammunition is linked four M903 SLAP to one M962 tracer for use in the M2 Heavy Barrel Machine Gun. The item is code A, approved for service use. The item has not transitioned to the SMCA and will be procured at actual cost.

JUSTIFICATION:

Procurements are intended for use against current and future light armored targets and Armored Attack Helicopters (AAHs). The M903 offers the capability to defeat these targets at ranges 2 to 3 times that of currently available ammunition.

Type Classified (TC) Date: March 1993.

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: CTG CAL .50 SLAPT M803 (M862 TRACER) (F88000)		Weapon System Type: M2 Heavy Barrel Machine Gun		Date: February 1998	
ID	CD	Ammunition Cost Elements	FY 96		FY 97		FY 98		FY 99	
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000
		AMMUNITION HARDWARE								
		1. COMPLETE ROUND	1486	194	7.66	2537	329	7.71		
		2. M2A1 METAL BOX	12	2	6.19	24	3	6.92		
		SubTotal AMMO Hardware	1498			2561				
		Production Support Costs								
		1. Production Engineering	238			244				
		2. Quality Assurance	90			90				
		3. Acceptance Testing	110			110				
		4. Interim Transportation	6			24				
		SubTotal Prod. Support	444			468				
		COST - Nonrecurring								
		1. ENGINEERING CHANGE	77							
		SubTotal COST-Nonrecurring	77							
		TOTAL	2019		10.40	3029		9.21		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
PROCUREMENT OF AMMUNITION / 1 / Ammunition		M2 Heavy Barrel Machine Gun		CTG CAL .50 SLAPT M903 (M982 TRACER) (F88000)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date
1. COMPLETE ROUND										
FY 96	OLIN, ILL	SS/FP	TACOM-ARDEC	Apr-96	Jun-96	80600	8.07			Jan-96
FY 96	OLIN, ILL	MOD	TACOM-ARDEC	Jan-97	Jan-98	113400	7.37			Sep-96
FY 97	OLIN, ILL	OPT	TACOM-ARDEC	Nov-97	Feb-98	329000	7.71	YES		N/A
2. M2A1 METAL BOX										
FY 96	Brockway Std, Homerville, GA	OPT	IOC	Mar-96	May-96	1940	6.19			
FY 97	Brockway Std, Homerville, GA	OPT	IOC	Nov-97	Feb-98	3469	6.92	YES		
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG CAL .50 API MK211 MOD 0 (F47400)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty			234	329	286							849	
Gross Cost	0.0	0.0	1.9	2.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	5.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	1.9	2.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	5.9	
Initial Spares													
Total Proc Cost	0.0	0.0	1.9	2.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	5.9	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
<p>The Grade B MK211 will be linked in a 4:1 ratio with the caliber .50 M20 Armor Piercing Incendiary Tracer cartridge for use in the M2 machine gun. The cartridge provides improved penetration performance against light armor vehicles and personnel. The projectile consists of a brass jacket surrounding a steel body and tungsten core with incendiary and high explosive charges.</p>													
JUSTIFICATION:													
<p>This is a war reserve item, used in combat. Procurements are building toward the war reserve requirement.</p>													
TYPE CLASSIFICATION DATE:													
9 February 1996													

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition					Weapon System Type:		P-1 Line Item Nomenclature: CTG CAL .50 API MK211 MOD 0 (F47400)					
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Load, Assemble and Pack FY 96 (Complete Round)		Olin Corp East Alton, IL		C/FP	NAVY	Jun-96	Jul-96	234000	6.20			
FY 97		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF	IOC	Sep-97	Oct-98	328773	0.38	Yes		Oct-96
FY 98		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF	IOC	Jan-98	Apr-99	286000	0.44	Yes		Oct-97
Ctg Cal .50 MK 211 API Grade B												
FY 96		Plant Procured		N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
FY 97		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF	IOC	Sep-97	Oct-98	263019	5.54	Yes		Oct-96
FY 98		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF	IOC	Jan-98	Apr-99	228800	6.32	Yes		Oct-97
Ctg .50 Cal API-T M20												
FY 96		Plant Procured		N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
FY 97		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF	IOC	Sep-97	Oct-98	65755	1.79	Yes		Oct-96
FY 98		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF	IOC	Jan-98	Apr-99	57200	2.04	Yes		Oct-97
Box Metal M2A1												
FY 96		Plant Procured		N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
FY 97		Brockway Standard Homerville, GA		C/FP	IOC	May-97	Dec-97	3354	5.03	Yes		Oct-96
FY 98		TBS		C/FP	IOC	Mar-98	Sep-98	2918	5.74	Yes		Oct-97
REMARKS: TBS- To be Selected												

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
PROCUREMENT OF AMMUNITION / 1 / Ammunition		CTG CAL 50 API MK211 MOD 0 (F47400)								
WBS Cost Elements: Fiscal Years		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Link M9 FY 96 FY 97 FY 98		N/A C/FP C/FP	N/A IOC IOC	N/A Jul-97 Mar-98	N/A Jan-98 Sep-98	N/A 331732 288574	N/A 0.06 0.07	N/A Yes Yes		N/A Oct-96 Oct-97
		Plant Procured Valentec Wells Costa Mesa, CA TBS								
REMARKS: TBS - To be Selected										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity / Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
Program Elements for Code B Items:												CTG, 20MM, ALL TYPES (E08900)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	294.1	1.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	295.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	294.1	1.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	295.6
Initial Spares												
Total Proc Cost	294.1	1.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	295.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

This budget line includes 20MM ALL TYPES.

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG. 25MM. ALL TYPES (E08200)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	963.0	45.5	68.2	79.9	86.2	59.6	60.9	72.6	84.1	88.7	0.0	1608.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	963.0	45.5	68.2	79.9	86.2	59.6	60.9	72.6	84.1	88.7	0.0	1608.7	
Initial Spares													
Total Proc Cost	963.0	45.5	68.2	79.9	86.2	59.6	60.9	72.6	84.1	88.7	0.0	1608.7	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
This budget line includes 25MM ALL TYPES.													

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, 25MM, ALL TYPES (E08200)			Weapon System Type:			Date: February 1998		
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
CTG 25MM TP-T M793			22281	1240	17.97	7174	487	14.72	20029	1283	15.61	19086	1458	13.09
CTG 25MM TP-T M793			411	28	14.72	39925	2323	17.19	25102	1420	17.68	40532	2560	15.83
CTG 25MM TPDS-T M910			45487	2272	20.02	32793	244		41058	289				
CTG 25MM APFSDS-T M919														
TOTAL			68179			79892			86189			59618		

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 25MM TP-T M793 (E09203)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	16102	789	1268	487	1283	1458	1232	1201	1200	1202		26222	
Gross Cost	221.6	11.7	22.7	7.2	20.0	19.1	16.4	16.2	16.4	16.6	0.0	367.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	221.6	11.7	22.7	7.2	20.0	19.1	16.4	16.2	16.4	16.6	0.0	367.9	
Initial Spares													
Total Proc Cost	221.6	11.7	22.7	7.2	20.0	19.1	16.4	16.2	16.4	16.6	0.0	367.9	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The M793 cartridge is a percussion primed 25mm Target Practice-Traced (TP-T) cartridge with M28 link for use in the M242 gun which is mounted on the Bradley Fighting Vehicle System. The M793 training round is ballistically matched to the M792 High Explosive Incendiary-Tracer (HEI-T) ammunition. This round will be packaged/shipped in the M621 plastic container, 30 rounds per container. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1979

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 25MM TP-T M793 (E08203)			Weapon System Type:			Date: February 1998		
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		AMMUNITION HARDWARE	17847	1268	13.29	6078	487	12.47	15937	1283	12.42	18543	1458	12.72
		Load, Assemble and Pack Container PA 125							1344	43	31.37			
		SubTotal AMMO Hardware	17847			6078			17281			18543		
		Production Support Costs												
		Production Engineering	556			223			1770			168		
		Quality Assurance	24			9			43			4		
		Acceptance Testing	205			66			199					
		Interim Transportation	69			58			124					
		Industrial Stock Support	751						612			371		
		CAWCF Gain/Loss Surcharge	3240			740								
		SubTotal Prod. Support	4845			1096			2748			543		
		TOTAL	22692		16.35	7174		14.72	20029		15.61	19086		13.09

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:					
PROCUREMENT OF AMMUNITION / 1 / Ammunition					CTG 25MM TP-T M793 (E08203)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Load, Assemble and Pack FY 96***	Olin Ordnance Marion, IL	C/FP	IOC	Apr-96	May-97	470	#12.47			
FY 96***	Alliant Tech Sys, Inc. New Brighton, MN	C/FP	IOC	Apr-96	May-97	770	#11.40			
FY 96***	Alliant Tech Sys, Inc. New Brighton, MN	C/FP	IOC	May-98	Dec-98	28	#12.47			
FY 97***	Alliant Tech Sys, Inc. New Brighton, MN	C/FP	IOC	May-97	Jan-98	184	#12.36	Yes		Feb-97
FY 97***	Primex Marion, IL	C/FP	IOC	May-97	Nov-98	303	#12.36	Yes		Feb-97
FY 98	TBS	C/FP	IOC	Mar-98	May-99	1283	12.42	Yes		Oct-97
FY 99***	TBS	C/FP	IOC	Mar-99	May-00	1458	12.72	Yes		Oct-98
Container PA125 FY 96	Plant Procured	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
FY 97	Plant Procured	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
FY 98	TBS	C/FP	IOC	Mar-98	May-99	43	31.37	Yes		Oct-97
FY 99	Plant Procured	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
REMARKS: TBS - To Be Selected # Actual contract price for multiple producers. ***Complete Round										

Exhibit P-40, Budget Item Justification Sheet													Date:	February 1998
Appropriation / Budget Activity/Serial No.													P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition													CTG 25MM TPDs-T M910 (E08204)	
Program Elements for Code B Items:													Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty	9081	468	2272	2323	1420	2560	2072	2072	2072	2072		26412		
Gross Cost	154.5	9.4	45.5	40.0	25.1	40.5	31.8	32.3	32.7	33.1	0.0	444.8		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	154.5	9.4	45.5	40.0	25.1	40.5	31.8	32.3	32.7	33.1	0.0	444.8		
Initial Spares														
Total Proc Cost	154.5	9.4	45.5	40.0	25.1	40.5	31.8	32.3	32.7	33.1	0.0	444.8		
Flyaway U/C														
Wpn Sys Proc U/C														
DESCRIPTION:														
The 25mm Armor Piercing (AP) training round is ballistically matched to the 25mm cartridge AP Discarding Sabot, with Tracer M791 and the AP Fin Stabilized Discarding Sabot, with Tracer M919. The M910 is used in gunnery training and qualification of the M2/M3 Bradley Fighting Vehicles in lieu of the M791 and the M919. This round supports live Bradley Fighting Vehicle training at smaller facilities that cannot use the long range combat cartridges. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.														
JUSTIFICATION:														
This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. The maximum range of the current APDS-T and the follow-on APFSDS-T cartridges precludes their use on most training ranges. Bradley Fighting Vehicle crews cannot obtain meaningful training without this round.														
TYPE CLASSIFICATION DATE:														
1988														

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: CTG 25MM TPDS-T M910 (E06204)		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost	UnitCost	TotalCost	UnitCost	TotalCost	UnitCost	TotalCost	UnitCost
		\$000	\$	\$000	\$	\$000	\$	\$000	\$
AMMUNITION HARDWARE									
Load, Assemble and Pack		35732	15.73	33826	14.56	20173	14.21	37642	14.70
Container PA125						1488	31.37		
SubTotal AMMO Hardware		35732		33826		21661		37642	
Production Support Costs									
Production Engineering		1108		1242		2215		2132	
Quality Assurance		50		47		54		4	
Acceptance Testing		411		369		249			
Interim Transportation		136		321		156			
Industrial Stock Support		1518		1		767		754	
CAWCF Gain/Loss Surcharge		6532		4119					
SubTotal Prod. Support		9755		6099		3441		2890	
TOTAL		45487	20.02	39925	17.19	25102	17.68	40532	15.83

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:			P-1 Line Item Nomenclature: CTG 25MM TPDS-T M910 (E08204)				
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Load, Assemble and Pack FY 96***		Alliant Tech Sys, Inc. New Brighton, MN Olin Ordnance Marion, IL Alliant Tech Sys, Inc. New Brighton, MN Primex Marion, IL TBS TBS Plant Procured Plant Procured TBS Plant Procured	C/FP	IOC	Apr-96	Apr-97	1580	#12.90			Mar-97
FY 96***			C/FP	IOC	Apr-96	May-97	692	#14.43			Mar-97
FY 97***			C/FP	IOC	Jun-97	Mar-98	1111	#12.20	Yes		Oct-97
FY 97***			C/FP	IOC	Jun-97	Apr-98	1212	#12.20	Yes		Oct-98
FY 98			C/FP	IOC	Mar-98	May-99	1420	14.21	Yes		N/A
FY 99***			C/FP	IOC	Mar-99	May-00	2560	14.70	Yes		N/A
Container PA125 FY 96			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FY 97			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FY 98			C/FP	IOC	Mar-98	Mar-99	47	31.37	Yes		Oct-97
FY 99		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
REMARKS: # Actual Contract Price for Multiple Producers TBS - To Be Selected ***Complete Round											

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 25MM APFSDS-T M919 (E08210)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	527	160		244	289		85	163	279	315		2062	
Gross Cost	81.9	22.8	0.0	32.8	41.1	0.0	12.7	24.1	35.0	38.9	0.0	289.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	81.9	22.8	0.0	32.8	41.1	0.0	12.7	24.1	35.0	38.9	0.0	289.3	
Initial Spares													
Total Proc Cost	81.9	22.8	0.0	32.8	41.1	0.0	12.7	24.1	35.0	38.9	0.0	289.3	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The 25mm Armor Piercing Fin Stabilized Discarding Sabot - Tracer (APFSDS-T) M919. The M919 uses the state-of-the-art technology by incorporating high energy propellants, low drag design, and improved penetrator material. This item is Code A, approved for service use. This item has not transitioned to the SMCA and will be procured at actual cost.

JUSTIFICATION:

The M919 will replace the M791 as the primary armor piercing cartridge for use in the 25mm, M242 Automatic Gun which is mounted on the M2/M3 Bradley Fighting Vehicle System, thus increasing its effectiveness against light threat weapon systems and enhancing its survivability. The current M791 does not defeat the current threat.

Type Classification Date: TC Limited Production Urgent, September 1989.
TC Standard September 1993.

Limited Material Release: September 1996

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 25MM APFSDS-T M919 (E08210)			Weapon System Type: 25mm, M242 Automatic Gun			Date: February 1998		
ID CD	Ammunition Cost Elements		FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
	AMMUNITION HARDWARE													
	1. Complete Round	A				30471	244	124.88	37731	289	130.56			
	2. Other Hardware					534			650					
	SubTotal AMMO Hardware					31005			38381					
	Production Support Costs													
	1. Production Engineering					1060			1972					
	2. Quality Assurance					120			210					
	3. Acceptance Testing					162			395					
	4. Interim Transportation					146			100					
	SubTotal Prod. Support					1488			2677					
	COST - Nonrecurring													
	1. PURSUIT OF 25MM REFERENCE LOT					300								
	SubTotal COST-Nonrecurring					300								
	TOTAL					32793		134.44	41058		142.07			

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type: 25mm, M242 Automatic Gun		P-1 Line Item Nomenclature: CTG 25MM APFSDS-T M919 (E08210)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. COMPLETE ROUND FY 97 FY 98	PRIMEX-MARION, IL PRIMEX-MARION, IL	SS/FP OPTION	ARDEC ARDEC	Sep-97 May-98	May-98 Feb-99	244000 289000	124.88 130.56	Yes	No	
REMARKS:										

P-1 Item Nomenclature:

CTG 25MM APFSDS-T M919 (E08210)

Date:

February 1998

[illegible]

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG, 30MM, ALL TYPES (ER8120)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	207.4	20.1	4.2	13.0	10.1	9.1	10.7	9.7	9.9	10.0	0.0	304.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	207.4	20.1	4.2	13.0	10.1	9.1	10.7	9.7	9.9	10.0	0.0	304.2	
Initial Spares													
Total Proc Cost	207.4	20.1	4.2	13.0	10.1	9.1	10.7	9.7	9.9	10.0	0.0	304.2	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
This budget line includes 30MM ALL TYPES.													

**Exhibit P-5, Weapon
Ammo Cost Analysis**

[illegible]

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No.												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 30MM HEDP M789 (E09900)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	3491			259			18					3768	
Gross Cost	144.0	0.0	0.0	10.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	155.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	144.0	0.0	0.0	10.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	155.1	
Initial Spares													
Total Proc Cost	144.0	0.0	0.0	10.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	155.1	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
The M789 lightweight 30MM high explosive-dual purpose (HEDP) cartridge is comprised of a steel projectile body loaded with HMX explosive and spin-compensated shaped charged liner, an M759 point detonating fuze, and an aluminum cartridge case. It is designed for use in the M230 automatic cannon. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.													
JUSTIFICATION:													
This is a war reserve item used for combat; procurements will be used to build the war reserve stockpile.													
TYPE CLASSIFICATION DATE:													
1962													

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 30MM HEDP M789 (E09900)				Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99		TotalCost	Qty	UnitCost	UnitCost
		TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost				
Ammunition Cost Elements		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	Each	\$	\$
AMMUNITION HARDWARE					6854	258830	26.48						
Load, Assemble and Pack					1255	17239	72.78						
PBXN 5 Type II Class 3					11	156	72.78						
PBXN 5 Type I Class 3						78	4.73						
*RDX Type II Class 7													
SubTotal AMMO Hardware					8120								
Production Support Costs					371								
Production Engineering					11								
Quality Assurance					89								
Acceptance Testing					77								
Interim Transportation					321								
Industrial Stock Support					989								
CAWCF Gain/Loss Surcharge													
SubTotal Prod. Support					1858								
COST - Nonrecurring													
*Government Furnished Material													
SubTotal COST-Nonrecurring													
TOTAL					9978							38.55	

Exhibit P-5a, Budget Procurement History and Planning													
Appropriation / Budget Activity/Serial No:				Weapon System Type:				P-1 Line Item Nomenclature:					
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG 30MM HEDP M789 (E08900)									
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?		Date Revisn Avail	RFP Issue Date
Load, Assemble and Pack FY 97		Alliant Tech Sys, Inc New Brighton, MN		C/FP	IOC	Sep-97	Aug-98	258830	26.48	Yes			Jun-97
PBXN 5 Type II Class 3 FY 97		Holston Defense (Holston AAP) Kingsport, TN		SS/CPFF	IOC	Oct-97	Nov-97	17239	72.78	Yes			Jul-97
PBXN 5 Type I Class 3 FY 97		Holston Defense (Holston AAP) Kingsport, TN		SS/CPFF	IOC	Oct-97	Nov-97	156	72.78	Yes			Jul-97
*RDX Type II Class 7 FY 97		Stock Issue		N/A	N/A	N/A	N/A	78	N/A	N/A			N/A
REMARKS: TBS - To Be Selected *Government Furnished Material													

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 30MM TP M788 (E10100)
P-1 Item Nomenclature:												
Program Elements for Code B Items:												
Other Related Program Elements:												
Code: A												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	5334	1617	313	299	939	760	795	795	795	795		12442
Gross Cost	61.2	20.1	4.2	3.0	10.1	9.1	9.6	9.7	9.9	10.0	0.0	146.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	61.2	20.1	4.2	3.0	10.1	9.1	9.6	9.7	9.9	10.0	0.0	146.9
Initial Spares												
Total Proc Cost	61.2	20.1	4.2	3.0	10.1	9.1	9.6	9.7	9.9	10.0	0.0	146.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The 30mm Linked Target Practice (TP) M788 cartridge is an electric primed aluminum cased cartridge which is used in the 30mm M230 chain gun weapon system. The system is used as the secondary armament system on the Apache Advanced Attack Helicopter (AH-64). This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1982

Exhibit P-5, Weapon Ammo Cost Analysis

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / I / Ammunition				P-1 Line Item Nomenclature: CTG 30MM TP M788 (E10100)				Weapon System Type:		Date: February 1998		
Ammunition Cost Elements				FY 96		FY 97		FY 98		FY 99						
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
Complete Round		3274	312510	10.48	2441	299310	8.16	8737	939000	9.31	8482	760000	11.16			
SubTotal AMMO Hardware		3274			2441			8737			8482					
Production Support Costs																
Production Engineering		101			112			893			398					
Quality Assurance		5			3			22			11					
Acceptance Testing		38			27			100								
Interim Transportation		12			23			63								
Industrial Stock Support		141			96			310			170					
CAWCF Gain/Loss Surcharge		598			297											
SubTotal Prod. Support		895			558			1388			579					
TOTAL		4169		13.34	2999		10.02	10125		10.78	9061		11.92			

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998	
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: CTG 30MM TP M788 (E10100)									
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Reven Avail	RFP Issue Date
Complete Round FY 96		Alliant Tech Sys, Inc New Brighton, MN	C/FP	IOC	Aug-96	Jan-97	312510	10.48	Yes		May-97
FY 97		Alliant Tech Sys, Inc New Brighton, MN	C/FP	IOC	Aug-97	Jan-98	299310	8.16	Yes		
FY 98		TBS	C/FP	IOC	Mar-98	Mar-99	939000	9.31	Yes		Oct-97
FY 99		TBS	C/FP	IOC	Mar-99	Mar-00	760000	11.16	Yes		Oct-98
REMARKS: TBS - To Be Selected											

Exhibit P-40, Budget Item Justification Sheet													Date:	February 1998
Appropriation / Budget Activity/Serial No:													P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition													CTG. 40MM. ALL TYPES (ER8001)	
Program Elements for Code B Items:													Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty														
Gross Cost	504.4	32.3	48.9	32.1	30.5	35.6	41.6	44.3	44.1	49.1	0.0	862.9		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	504.4	32.3	48.9	32.1	30.5	35.6	41.6	44.3	44.1	49.1	0.0	862.9		
Initial Spares														
Total Proc Cost	504.4	32.3	48.9	32.1	30.5	35.6	41.6	44.3	44.1	49.1	0.0	862.9		
Flyaway U/C														
Wpn Sys Proc U/C														

DESCRIPTION:

This budget line includes 40MM ALL TYPES.

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG, 40MM, ALL TYPES (ER8001)				Weapon System Type:		Date: February 1998	
Ammunition Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
CTG 40MM TP M918 LINKED F/MK19 MG			33540	1940	17.29	30887	2124	14.54	23888	1483	16.11	30491	2000	15.25
CTG 40MM PRACTICE M781			1835	316	5.81	1241	585	2.12	5149	2165	2.38	2698	1053	2.56
CTG 40MM PRACTICE M385A1												790	57	13.84
CTG 40MM NON-LETHAL XM1006									1213	18	67	1639	40	
CTG 40MM HEDP M430 F/MK 19			13496	746	18.08				111	11	10			
CTG 40MM FOAM BATON NON-LETHAL									142	14	10			
CTG 40MM NON-LETHAL CROWD DISPER														
TOTAL			48871			32128			30503			35618		

Exhibit P-40, Budget Item Justification Sheet													Date:
Appropriation / Budget Activity/Serial No:													February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition													P-1 Item Nomenclature:
Program Elements for Code B Items:													CTG 40MM TP M918 LINKED FMK19 MG (E71100)
Other Related Program Elements:													
Code: A													
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty	5784	737	1940	2124	2000	2365	2491	2439	2437		23800		
Gross Cost	80.6	12.8	33.5	30.9	30.5	35.3	37.7	37.4	38.6	0.0	361.2		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	80.6	12.8	33.5	30.9	30.5	35.3	37.7	37.4	38.6	0.0	361.2		
Initial Spares													
Total Proc Cost	80.6	12.8	33.5	30.9	30.5	35.3	37.7	37.4	38.6	0.0	361.2		
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The 40mm Target Practice (TP) cartridge for the MK19 Machine Gun is a high velocity training projectile with realistic signature effects providing sufficient flash, smoke, and sound upon impact to be seen/heard at a 1200 meter minimum range under standard atmospheric conditions and level terrain. In addition to providing audible/visual signature for day or night firing, the TP for MK19 gun will minimize hazard to troops in the training area. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. This cartridge is required since firing the standard service 40mm high-explosive dual-purpose (HEDP) M430 cartridge is prohibited at many training ranges. The M918 allows frequent and safe MK19 MOD 3 40mm Grenade Machine Gun and M129 Grenade Launcher training.

TYPE CLASSIFICATION DATE:

1985

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: CTG 40MM TP M918 LINKED FMK19 MG (E71100)		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
Ammunition Cost Elements		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000
AMMUNITION HARDWARE									
Load, Assemble and Pack		5652	1940	2.91	5683	2124	2.67	5691	1483
Proj Assy		13914	1999	6.96	13839	2188	6.32	8185	1527
Ctg Case M169		1854	2018	0.92	1743	2209	0.79	1780	1542
*Prop M2 SP .019 (LB)		760	29	26.12	699	32	21.93	553	22
M550 Escape Assy		3039	2044	1.49	3018	2237	1.35	2614	1562
Det Stab M55		665	2047	0.32	740	2241	0.33	589	1564
Link M16A2		463	2057	0.22	445	2252	0.20	1202	1572
SubTotal AMMO Hardware		26347			26167			20614	
Production Support Costs									
Production Engineering		817			1088			2107	
Quality Assurance		37			37			52	
Acceptance Testing		303			285			237	
Interim Transportation		100			249			148	
Industrial Stock Support		1120						730	
CAWCF Gain/Loss Surcharge		4816			3061				
SubTotal Prod. Support		7193			4720			3274	
COST - Nonrecurring									
*Government Furnished Material								-596	
SubTotal COST-Nonrecurring								-596	
TOTAL		33540		17.29	30887		14.54	23888	
							</		

Exhibit P-5a, Budget Procurement History and Planning														
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			Weapon System Type:			P-1 Line Item Nomenclature: CTG 40MM TP M918 LINKED F/MK19 MG (E71100)								
WBS Cost Elements: Fiscal Years			Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?		Date Revisn Avail	RFP Issue Date
Load, Assemble and Pack FY 96 FY 97 FY 98 FY 99			Martin Marietta (Milan AAP) Milan, TN		SS/CPAF	IOC	Jul-96	May-97	1940	2.91				Jan-97
			General Dynamics (Milan AAP) Milan, TN		SS/CPAF	IOC	Apr-97	Aug-98	2124	2.67	Yes			Oct-97
			General Dynamics (Milan AAP) Milan, TN		SS/CPAF	IOC	Mar-98	Mar-00	1483	3.84	Yes			Oct-97
			General Dynamics (Milan AAP) Milan, TN		SS/CPAF	IOC	Dec-98	Apr-00	2000	4.34	Yes			Oct-98
Proj Assy** FY96 FY 97 FY 98 FY 99			A&A Electronic Auburndale, FL Dayron Corp Orlando, FL TBS TBS		C/FP C/FP C/FP C/FP	IOC IOC IOC IOC	Jun-96 Jul-97 Sep-98 Jul-99	Jan-97 Oct-97 Mar-99 Jan-00	1999 2188 1527 2060	6.96 6.32 5.36 5.39	Yes Yes Yes Yes		Oct-96 Oct-97 Oct-98	
			Amron Corp Waukesha, WI		SS/FP	IOC	Sep-96	Nov-96	2018	0.92	Yes			Apr-97
			Amron Corp Waukesha, WI		SS/FP	IOC	Jul-97	May-98	2209	0.79	Yes			Oct-97
			Amron Corp Waukesha, WI		SS/FP	IOC	Mar-98	Mar-99	1542	1.15	Yes			Oct-97
FY 99			Amron Corp Waukesha, WI		SS/FP	IOC	Mar-99	Jan-00	2080	1.25	Yes			Oct-98
REMARKS:			TBS - To be Selected **Pacing Component											

Exhibit P-5a, Budget Procurement History and Planning											Date:	February 1998
Appropriation / Budget Activity/Serial No:				Weapon System Type:			P-1 Line Item Nomenclature:					
PROCUREMENT OF AMMUNITION / 1 / Ammunition							CTG 40MM TP M918 LINKED FMK19 MG (E71100)					
WBS Cost Elements:		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Fiscal Years												
*Prop M2 SP .019 (LB)		Alliant Tech Sys (Radford AAP)		SS/FP	IOC	Apr-96	Oct-96	29	26.12			Apr-97
FY 96		Radford, VA										
FY 97		Alliant Tech Sys (Radford AAP)		SS/FP	IOC	Jul-97	Nov-97	32	21.93	Yes		Apr-97
		Radford, VA										
FY 98		Alliant Tech Sys (Radford AAP)		SS/FP	IOC	Dec-97	Apr-98	22	24.85	Yes		Oct-97
		Radford, VA										
FY 99		Stock Issue		N/A	N/A	N/A	N/A	30	N/A	N/A		N/A
M550 Escape Assy		Dayron Corp		SS/FP	IOC	Sep-96	Jan-97	2044	1.49	Yes		Apr-97
FY 96		Orlando, FL										
FY 97		Dayron Corp		SS/FP	IOC	Jul-97	Jan-98	2237	1.35	Yes		Oct-97
		Orlando, FL										
FY 98		Dayron Corp		SS/FP	IOC	Jul-98	Jan-99	1562	1.67	Yes		Oct-97
		Orlando, FL										
FY 99		Dayron Corp		SS/FP	IOC	Jul-99	Jan-00	2106	1.63	Yes		Oct-98
		Orlando, FL										
REMARKS: *Government Furnished Material												

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition					Weapon System Type:			Date: February 1998				
P-1 Line Item Nomenclature: CTG 40MM TP M918 LINKED FMK19 MG (E71100)												
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Def Stab M55 FY 96		Day & Zimmerman (Lone Star AAP) Texarkana, TX		SS/CPFF	IOC	Mar-96	Oct-96	2047	0.32			Apr-97
FY 97		Day & Zimmerman (Lone Star AAP) Texarkana, TX		SS/CPFF	IOC	Jul-97	Feb-98	2241	0.33	Yes		Oct-97
FY 98		Day & Zimmerman (Lone Star AAP) Texarkana, TX		SS/CPFF	IOC	Mar-98	Oct-98	1564	0.38	Yes		Oct-97
FY 99		Day & Zimmerman (Lone Star AAP) Texarkana, TX		SS/CPFF	IOC	Apr-99	Oct-99	2110	0.57	Yes		Oct-98
Link M16A2 FY 96		Valentec Wells Costa Mesa, CA		C/FP	IOC	Apr-96	Jan-97	2057	0.22			Oct-96
FY 97		Valentec Wells Costa Mesa, CA		C/FP	IOC	Apr-97	May-98	2252	0.20	Yes		Oct-97
FY 98		TBS		C/FP	IOC	Jul-98	Jan-99	1572	0.76	Yes		Oct-97
FY 99		TBS		C/FP	IOC	Jul-99	Jan-00	2120	0.77	Yes		Oct-98
REMARKS: TBS - To be Selected												

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 40MM PRACTICE M781 (E74200)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	11393	1641	316	585	2165	1053	1505	1505	1505	1505		23173	
Gross Cost	23.6	6.2	1.8	1.2	5.1	2.7	3.7	3.8	3.8	3.8	0.0	55.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	23.6	6.2	1.8	1.2	5.1	2.7	3.7	3.8	3.8	3.8	0.0	55.7	
Initial Spares													
Total Proc Cost	23.6	6.2	1.8	1.2	5.1	2.7	3.7	3.8	3.8	3.8	0.0	55.7	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
<p>The M781 practice cartridge replaced the M407 practice cartridge. The M781 is a low cost, unfuzed fixed round of practice ammunition ready for use as issued and is compatible with the M79 and M203 Grenade Launchers. The cartridge case is made of plastic material and the projectile is also plastic with an aluminum rotating band. The ogive is made of a frangible plastic material and contains a colored dye in granular form, the consistency of talcum powder, which is used to generate a signature. The propulsion system consists of a standard .38 caliber blank. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.</p>													
JUSTIFICATION:													
<p>This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.</p>													
TYPE CLASSIFICATION DATE:													
1978													

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature. CTG 40MM PRACTICE M781 (E74200)			Weapon System Type.		Date. February 1998			
Ammunition Cost Elements	ID	CD	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE Complete Round			1441	316	4.56	1052	585	1.80	4443	2165	2.05	2329	1053	2.21
SubTotal AMMO Hardware			1441			1052			4443			2329		
Production Support Costs														
Production Engineering			45			43			454			312		
Quality Assurance			2			1			11			11		
Acceptance Testing			17			11			51					
Interim Transportation			5			10			32					
Industrial Stock Support			61			1			158			46		
CAWCF Gain/Loss Surcharge			264			123								
SubTotal Prod. Support			394			189			706			369		
TOTAL			1835		5.81	1241		2.12	5149		2.38	2698		2.56

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998										
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								CTG 40MM PRACTICE M781 (E74200)											
PROCUREMENT OF AMMUNITION / 1 / Ammunition		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY x1000		Unit Cost \$		Specs Avail Now?		Date Revis Avail		RFP Issue Date			
WBS Cost Elements:		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY x1000		Unit Cost \$		Specs Avail Now?		Date Revis Avail		RFP Issue Date	
Complete Round		Action Mfg Philadelphia, PA		C/FP		IOC		Nov-96		Jul-97		316		4.56						May-97	
FY 96		Action Mfg Philadelphia, PA		C/FP		IOC		Aug-97		May-98		585		1.80		Yes					
FY 97		TBS		C/FP		IOC		Aug-98		Mar-99		2165		2.05		Yes				Oct-97	
FY 98		TBS		C/FP		IOC		Aug-99		Apr-00		1053		2.21		Yes				Oct-98	
FY 99																					
REMARKS: TBS - To Be Selected																					

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
CTG MORTAR 60MM 1/10 PRAC M766 (E72000)												
Program Elements for Code B Items:												Other Related Program Elements:
Code:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	9	2	9	8			4	6	5	6		49
Gross Cost	6.4	3.3	6.2	5.2	0.0	0.0	5.3	4.3	4.4	4.7	0.0	39.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	6.4	3.3	6.2	5.2	0.0	0.0	5.3	4.3	4.4	4.7	0.0	39.8
Initial Spares												
Total Proc Cost	6.4	3.3	6.2	5.2	0.0	0.0	5.3	4.3	4.4	4.7	0.0	39.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The M766 60mm mortar cartridge is a low-cost, short range, refurbishable practice round that will replace a majority of the standard High Explosive (HE) rounds used in the 60mm mortar training strategy. It consists of a M779 point detonating practice fuze which provides flash, bang and smoke; a steel body which approximates the shape of the 60mm HE service round; and an ignition cartridge which provides the limited propulsion requirement. After firing, the round is retrieved and refurbished. Refurbishment will be accomplished by replacing the fuze, the obturating ring, range adjustment plugs, the ignition cartridge, dud plugs and the breech plug. The round is designed to be used at least 25 times (i.e., original firing plus 24 refurbishments). This item is code A: It has been type classified and has been approved for service use.

JUSTIFICATION:

This is a training-unique item; not used in combat. Use of the M766 will reduce training costs and environmental impacts while expanding the training environment by allowing soldiers to train in locations other than full ranges or ranges used for firing full range service rounds. The FY00 procurement supports annual peacetime training requirements and builds toward authorized depot level for training unique ammunition.

Type Classification Date: JUN 93
Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG MORTAR 60MM 1/10 PRAC M766 (E72000)				Weapon System Type:		Date: February 1998		
Ammunition Cost Elements				FY 96		FY 97		FY 98		FY 99						
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE																
1. Complete Round		761	9350	81	633	7666	83									
2. Refurbish Kits		4004	22400	18	3329	183984	18									
SubTotal AMMO Hardware		4765			3962											
Production Support Costs																
Production Engineering		1126			940											
Quality Assurance		253			220											
Acceptance Testing		54			47											
Interim Transportation		46			40											
SubTotal Prod. Support		1479			1247											
COST - Nonrecurring																
SubTotal COST-Nonrecurring																
TOTAL		6244			5209											

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 1 / Ammunition			Weapon System Type:			P-1 Line Item Nomenclature: CTG MORTAR 60MM 1/10 PRAC M766 (E72000)				
WBS Cost Elements:			Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$
Fiscal Years									Specs Avail Now?	Date RFP Issue
1. Complete Round										
FY 96			Pocal Industries, Moscow, PA		OPT	TACOM	Feb-97	May-98	4849	81
FY 96			Pocal Industries, Moscow, PA		OPT	TACOM	Aug-97	Sep-98	4501	81
FY 97			Pocal Industries, Moscow, PA		OPT	TACOM	Feb-97	Nov-98	7666	83
2. Refurbish Kits										N/A
FY 96			Pocal Industries, Moscow, PA		OPT	TACOM	Feb-97	May-98	116376	18
FY 96			Pocal Industries, Moscow, PA		OPT	TACOM	Aug-97	Sep-98	108024	18
FY 97			Pocal Industries, Moscow, PA		OPT	TACOM	Feb-97	Nov-98	183984	18
										N/A

Exhibit P-40, Budget Item Justification Sheet											Date:	
Appropriation / Budget Activity/Serial No.											February 1998	
PROCUREMENT OF AMMUNITION / 1 / Ammunition											P-1 Item Nomenclature:	
Program Elements for Code B Items:											CTG MORTAR 60MM ILLUM M721(M767 (E70400))	
Code:											Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty		25	52	28								105
Gross Cost	4.7	10.6	22.4	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.7	10.6	22.4	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.8
Initial Spares												
Total Proc Cost	4.7	10.6	22.4	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The 60mm Mortar Illuminating cartridge is designed for use with the M224 lightweight company mortar system (LWCMS) in all light infantry battalions including Airborne, Air Assault and Ranger. The M721 will provide illuminating capability at the same effective range as the companion High Explosive (HE) Cartridges, M720 (Range 3,200-3,800 Meters Maximum). This is triple the range of the ammunition it replaces. The HE and Illum Cartridges are basically similar, thus allowing a gun to illuminate and fire on the same target without adjustments. The FY96 and FY97 Procurements include both white light and Infrared Illuminant. This item is Code A: it is Type Classified (TC) and has been approved for service use.

JUSTIFICATION:
The FY97 procurement meets the annual peacetime training requirements and builds a war reserve stockpile in support of fielded Mortar Weapons.

Type classification date: white light SEP 87; infrared JUN 98
Acquisition manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG MORTAR 60MM ILLUM M721/M767 (E70400)			Weapon System Type:			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
		AMMUNITION HARDWARE												
		1. CTG M721, LAP/	3195	19366	165	1256	7790	161						
		CTG XM767 LAP	6713	32710	205	3970	19790	201						
		2. PROP CHG M204	1397	216636	6									
		3. PROP CHG M235				567	114733	5						
		4. IGN CTG M702	599	54159	11	373	28683	13						
		5. FUZE, M776 MTSQ	6719	54159	124	3636	28683	127						
		6. FIN M27	252	54159	5	179	28683	6						
		SubTotal AMMO Hardware	18875			9981								
		Production Support Costs												
		Production Engineering	1007			1974								
		Quality Assurance	526			358								
		Acceptance Testing	302			168								
		Interim Transportation	82			54								
		SubTotal Prod. Support	1917			2554								
		COST - Nonrecurring												
		1. First Article Test / IPT	1586			592								
		2. Calibration Lot												
		SubTotal COST-Nonrecurring	1586			592								
		TOTAL	22378		430	13127		476						

Exhibit P-5a, Budget Procurement History and Planning											Date:
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:		P-1 Line Item Nomenclature:					February 1998
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date RFP Issue
1. CTG,M721,LAP		Pine Bluff Arsenal, Pine Bluff, AR		SS/CR	TACOM	Sep-96	Apr-98	19366	165	Yes	N/A
FY 96		Pine Bluff Arsenal, Pine Bluff, AR		SS/CR	TACOM	Feb-97	Sep-98	7790	161	Yes	N/A
CTG,XM767,LAP		Pine Bluff Arsenal, Pine Bluff, AR		SS/CR	TACOM	Sep-96	Feb-98	32710	205	Yes	N/A
FY 96		Pine Bluff Arsenal, Pine Bluff, AR		SS/CR	TACOM	Feb-97	Nov-98	19790	201	Yes	N/A
2. PROP CHG M204		GDOS(Milan AAP), Milan, TN		SS/CPAF	IOC	Jun-96	Jul-97	216636	6	Yes	N/A
FY 96											
3. PROP CHG M235		Unknown		C/FP	TACOM	Jan-98	Aug-98	114733	5	Yes	N/A
FY 97											Jun-97
4. IGN CTG M702		GDOS(Milan AAP), Milan, TN		SS/CPAF	IOC	Sep-96	Jun-97	54159	11	Yes	N/A
FY 96		GDOS(Milan AAP), Milan, TN		C/FP	TACOM	Sep-97	Jun-98	28683	13	Yes	N/A
FY 97											
5. FUZE, M776 MTSQ		Diehl GMBH, Schramberg, GER		SS/FP	IOC	Jul-96	Jan-97	23978	124	Yes	N/A
FY 96		Diehl GMBH, Schramberg, GER		OPT	IOC	Sep-96	Mar-97	30181	124	Yes	N/A
FY 96		Diehl GMBH, Schramberg, GER		OPT	IOC	Feb-97	Sep-97	24245	127	Yes	N/A
FY 97		Diehl GMBH, Schramberg, GER		SS/FP	TACOM	Aug-97	Jun-98	4438	127	Yes	N/A
6. FIN M27		Wilkinson Mfg Co., Ft. Calhoun, NE		C/FP	IOC	Sep-96	Mar-97	54159	5	Yes	N/A
FY 96		Wilkinson Mfg Co., Ft. Calhoun, NE		C/FP	TACOM	Jun-97	Apr-98	28683	6	Yes	N/A
FY 97											
REMARKS: Pine Bluff Arsenal is a government owned - government operated (GOGO) facility. Work is performed through work orders, not contracts. Sole source to Diehl due to expertise and non-availability of a U.S. produced mortar time fuze.											

Exhibit P-40, Budget Item Justification Sheet												Date: February 1998
Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature:									
PROCUREMENT OF AMMUNITION / 1 / Ammunition			CTG MORTAR 60MM SMOKE WP M722 (E70500)									
Program Elements for Code B Items:			Other Related Program Elements:									
			Code:	A								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	164				23							187
Gross Cost	21.0	0.0	0.0	0.0	4.6	0.4	0.3	0.0	0.0	0.0	0.0	26.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	21.0	0.0	0.0	0.0	4.6	0.4	0.3	0.0	0.0	0.0	0.0	26.3
Initial Spares												
Total Proc Cost	21.0	0.0	0.0	0.0	4.6	0.4	0.3	0.0	0.0	0.0	0.0	26.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The M722, 60MM WP Smoke Cartridge is used on the M224 Lightweight Company Mortar System (LWCMS). It provides a smoke cloud for spotting or marking a target area. The M722 is assembled with the M745 Point Detonating Fuze which functions on impact. The cartridge has an integral burster charge, white phosphorous filler, a thin wall shell, fin assembly, a four increment M204 propelling charge, and ignition cartridge. The operating range is from 70 to 3,490 meters. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

The need for a LWCMS resulted from an operational requirement for a lightweight mortar to enhance the firepower and mobility of small infantry units, and to increase the combat effectiveness of these units in scenarios where manportability is essential. The requirements established a need to retain most of the capabilities of the standard 81MM Mortar, but with greatly reduced weight, and improved portability and ease of handling. Procurement builds a war reserve inventory in accordance with the Army's procurement goals. FY 99 dollars fund annualized support cost.

TYPE CLASSIFICATION DATE:

September 1991

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: CTG MORTAR 60MM SMOKE WP M722 (E70500)		Weapon System Type:		Date: February 1988		
Ammunition Cost Elements		ID	FY 96		FY 97		FY 98		FY 99	
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
			\$000	Each	\$	\$000	Each	\$	\$000	Each
AMMUNITION HARDWARE										
Load, Assemble and Pack										
Proj MPTS										
M27 Fin Assembly										
LAP Chg Prop M204										
Container Assy M204										
Nitrocellulose VW/ GR A (LB)										
M702 Ignition Cartridge										
M9 Flake .006 F/60MM (LB)										
M10 Flake .008 (LB)										
Det Stab M61										
Det Stab M55										
Fuze M745										
Fz Mpts M745										
*Comp A-5 Class 1(LB)										
PBXN-5 Type 1 Class 3 (LB)										
SubTotal AMMO Hardware										
Production Support Costs										
Production Engineering										
Quality Assurance										
Acceptance Testing										
Interim Transportation										
Industrial Stock Support										
CAWCF Gain/Loss Surcharge										
SubTotal Prod. Support										
COST - Nonrecurring										
*Government Furnished Material										
SubTotal COST-Nonrecurring										
TOTAL										

Exhibit P-5a, Budget Procurement History and Planning														
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition					Weapon System Type:		Date: February 1998							
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: CTG MORTAR 60MM SMOKE WP M722 (E70500)									
Contractor and Location					Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Load, Assemble and Pack FY 98					Pine Bluff Arsenal Pine Bluff , AR	SS/FP	IOC	Feb-98	Sep-99	23000	83.53	Yes		Oct-97
Proj MPTS FY 98					TBS	C/FP	IOC	Apr-98	May-99	23920	15.12	Yes		Oct-97
Fin Assy M27 FY 98					TBS	C/FP	IOC	Apr-98	May-99	23920	5.48	Yes		Oct-97
LAP Chg Prop M204 FY 98					General Dynamics (Milan AAP) Milan, TN	SS/CPAF	IOC	Mar-98	Mar-99	94300	0.96	Yes		Oct-97
Container Assy M204 FY 98					ARMTEC Defense Prod Coachella, CA	SS/FP	IOC	Apr-98	Jan-99	94300	1.75	Yes		Oct-97
Nitrocellulose VWV GR A (LB) FY 98					Alliant Tech Sys (Radford AAP) Radford, VA	SS/FP	IOC	Apr-98	Jul-98	759	4.04	Yes		Oct-97
M720 Ignition Cartridge FY 98					General Dynamics (Milan AAP) Milan, TN	SS/CPAF	IOC	Mar-98	Mar-99	23920	8.97	Yes		Oct-97
REMARKS: TBS - To be Selected														

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No:					Date: February 1998							
PROCUREMENT OF AMMUNITION / 1 / Ammunition					P-1 Line Item Nomenclature: CTG MORTAR 60MM SMOKE WP M722 (E70500)							
WBS Cost Elements:		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years												
M9 Flake .006 (LB) FY 98		Alliant Tech Sys (Radford AAP) Radford, VA		SS/FP	IOC	Apr-98	Jul-98	184	57.90	Yes		Oct-97
M10 Flake .008 (LB) FY 98		Alliant Tech Sys (Radford AAP) Radford, VA		C/FP	IOC	Apr-98	Jul-98	1840	19.59	Yes		Oct-97
Det Stab M61 FY 98		Day & Zimmerman (Lone Star AAP) Texarkana, TX		SS/CPFF	IOC	Mar-98	Dec-98	24150	2.26	Yes		Oct-97
Det Stab M55 FY 98		Day & Zimmerman (Lone Star AAP) Texarkana, TX		SS/CPFF	IOC	Mar-98	Dec-98	23690	0.38	Yes		Oct-97
Fuze M745 FY 98		General Dynamics (Milan AAP) Milan, TN		SS/CPAF	IOC	Mar-98	Jul-99	23690	2.16	Yes		Oct-97
Fz Mpls M745 ** FY 98		TBS		C/FP	IOC	Apr-98	Apr-99	23920	39.44	Yes		Oct-97
REMARKS: **Pacing Component TBS - To Be Selected												

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG MORTAR 60MM SMOKE WP M722 (E70500)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
*COMP A-5, Class 1 (LB) FY 98	Stock Issue	N/A	N/A	N/A	N/A	196	N/A	N/A		N/A
PBXN-5 Type 1, Class 3 (LB) FY 98	Holston Defense (Holston AAP) Kingsport, TN	SS/CPFF	IOC	Mar-98	Sep-98	7	83.04	Yes		Oct-97
REMARKS: *Government Furnished Material										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG MORTAR 60MM HE M720A1 (E67303)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty						47	39	43	43	22	N/A	194	
Gross Cost	0.0	0.0	0.0	1.4	0.0	20.5	16.2	14.9	15.1	8.7	0.0	76.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	1.4	0.0	20.5	16.2	14.9	15.1	8.7	0.0	76.9	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	1.4	0.0	20.5	16.2	14.9	15.1	8.7	0.0	76.9	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:
The round is used against personnel and materiel providing both fragmentation and blast effect. It consists of a multi-option fuze, tail assembly, and projectile body with a TNT or composition B explosive fill. A materiel change funded in FY97 should result in a change to the explosive fill by incorporation of an insensitive munition. The round uses a proximity fuze setting to burst at a height over the target which is optimized for lethality. The M720A1 version incorporates the more reliable and countermeasure resistant M734A1 Multi-option fuze. This item is code A: it has been approved for service use.

JUSTIFICATION:
The FY99 procurement builds a war reserve stockpile in support of fielded Mortar Weapons.

Type Classification date: M720 STD JAN86; M720A1 STD FEB98
Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG MORTAR 60MM HE M720A1 (E87303)			Weapon System Type:			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
		AMMUNITION HARDWARE												
		1. CTG, M720A1, LAP										3234	46500	70
		2. *SHELL BODY										253	24180	10
		3. PROP CHG M235										972	190650	5
		4. IGN CTG M702										639	48360	13
		5. FUZE, M734A1 MO										12886	48360	266
		6. FIN M27										307	48360	6
		SubTotal AMMO Hardware										18291		
		Production Support Costs												
		Production Engineering										520		
		Quality Assurance										118		
		Acceptance Testing										66		
		Interim Transportation										33		
		SubTotal Prod. Support										737		
		COST - Nonrecurring												
		First Article												
		M720A1 Qualification Engr & Test										1500		
		*GFM												
		SubTotal COST-Nonrecurring										1500		
		TOTAL	1400									20528		442

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			Weapon System Type:		P-1 Line Item Nomenclature: CTG MORTAR 60MM HE M720A1 (E67303)				Date: February 1998	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. CTG, M720A1, LAP FY 99	Unknown	C/FP	TACOM	Mar-99	Sep-00	46500	70	Yes		Oct-98
2. SHELL BODY FY 99	Unknown	C/FP	TACOM	Mar-99	Mar-00	24180	10	Yes		Oct-98
3. PROP CHG M235 FY 99	Unknown	OPT	TACOM	Jan-99	Sep-99	190650	5	Yes		Jun-97
4. IGN CTG M702 FY 99	Unknown	C/FP	TACOM	Mar-99	Dec-99	48360	13	Yes		
5. FUZE, M734A1 MO FY 99	Unknown	OPT	TACOM	Jan-99	Feb-00	48360	266	Yes		Feb-98
6. FIN M27 FY 99	Unknown	C/FP	TACOM	Mar-99	Dec-99	48360	6	Yes		Oct-98
REMARKS: 50% of the shell bodies will be taken from existing stocks, remainder will be a new procurement.										

Exhibit P-40, Budget Item Justification Sheet											Date:	
Appropriation / Budget Activity/Serial No:											February 1998	
PROCUREMENT OF AMMUNITION / 1 / Ammunition											P-1 Item Nomenclature:	
Program Elements for Code B Items:											CTG 81MM INFRARED (IR) ILLUM XM816 (E90000)	
Code:											Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty						8						8
Gross Cost	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	9.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	9.4
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	9.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The round is used to illuminate target areas during night operations. It consists of a two-piece body filled with illuminating flare, fuze, and tail assembly. It bursts over a target, producing infrared illumination which greatly enhances the performance of night vision devices. This item is code A: it has been type classified and approved for service use.

JUSTIFICATION:
The FY99 Procurement builds a war reserve in support of fielded mortar weapons.

Type classification date: TC LP JUL94; TC STD NOV00
Acquisition manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 81MM INFRARED (IR) ILLUM XM816 (E90000)				Weapon System Type:		Date: February 1998	
Ammunition Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99		TotalCost	Qty	UnitCost	UnitCost
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty				
		\$000	Each	\$	\$000	Each	\$	\$000	Each				
AMMUNITION HARDWARE													
1. CTG, XM816, LAP													
2. Shell bodies													
3. Prop Chg M219													
4. Ign Ctg M752													
5. Fuze M772													
6. Other Hardware													
SubTotal AMMO Hardware													
Production Support Costs													
Production Engineering													
Quality Assurance													
Acceptance Testing													
Interim Transportation													
SubTotal Prod. Support													
COST - Nonrecurring													
First Article Testing/IPT													
SubTotal COST-Nonrecurring													
TOTAL													

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG 81MM INFRARED (IR) ILLUM XM816 (E90000)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. CTG, XM816, LAP FY 99	Pine Bluff Arsenal, Pine Bluff, AR	SS/CR	TACOM	Mar-99	Dec-00	8000	279			
2. Shell Bodies FY 99	TACOM	C/FP	TACOM	Mar-99	Feb-00	8320	25			
3. Prop Chg M219 FY 99	Unknown	OPT	TACOM	Mar-99	Feb-00	32800	5			
4. Ign Ctg M752 FY 99	Unknown	C/FP	TACOM	Mar-99	Feb-00	8320	18			
5. Fuze M772 FY 99	Diehl GMBH Schramberg, Germany	SS/FP	TACOM	Mar-99	Feb-00	8320	148			
REMARKS: Sole source to Pine Bluff Arsenal to workload specified mission facility. Sole source to Diehl GMBH as only responsible source. Shell body contract limited to North America competition.										

Exhibit P-40, Budget Item Justification Sheet													Date:
Appropriation / Budget Activity/Serial No:													February 1998
P-1 Item Nomenclature:													
CTG MORTAR 120MM FULL RANGE PRACTICE M931 (E25507)													
PROCUREMENT OF AMMUNITION / 1 / Ammunition													
Other Related Program Elements:													
Code:													
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty		37	127	78	97	96	93	94	92		714		
Gross Cost	0.0	18.2	50.9	31.7	39.7	39.9	39.4	40.2	39.5	0.0	299.6		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	18.2	50.9	31.7	39.7	39.9	39.4	42.0	39.5	0.0	301.4		
Initial Spares													
Total Proc Cost	0.0	18.2	50.9	31.7	39.7	39.9	39.4	42.0	39.5	0.0	301.4		
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:
The M931 120mm mortar cartridge is a low-cost, full range, practice round that will replace a percentage of the standard High Explosive (HE) rounds used in 120mm mortar training. It consists of a M781 point detonating practice fuze which simulates the multi-option fuze and provides flash, bang and smoke; a steel body which approximates the shape of the 120mm HE service round; and an ignition cartridge and propelling charge which provide the propulsion requirement. This item is code A: It has been type classified and has been approved for service use. This round is produced from a performance specification.

JUSTIFICATION:
This is a training-unique item; not used in combat. Use of the M931 will reduce training costs and environmental impacts. The FY99 procurement supports annual peacetime training requirements and builds toward authorized depot level for training unique ammunition.

Type classification date: TC (STD) AUG96
Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG MORTAR 120MM FULL RANGE PRACTICE M931 (E25507)				Weapon System Type:		Date: February 1998		
Ammunition Cost Elements				FY 96		FY 97		FY 98		FY 99						
ID	CD	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
AMMUNITION HARDWARE																
1. Modified System Contract, M931																
1a. LAP M931																
2. SHELL BODY																
3. FIN ASSEMBLY M34																
4. PROP CHARGE M233																
5. IGNITION CTG M1020																
6. FUZE TRNG M781																
SubTotal AMMO Hardware																
Production Support Costs																
Production Engineering																
Quality Assurance																
Acceptance Testing																
Interim Transportation																
PMO																
SubTotal Prod. Support																
COST - Nonrecurring																
1. First Article																
2. Production Verification Test																
3. Calibration Lot																
SubTotal COST-Nonrecurring																
TOTAL																

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:				Date: February 1998	
WBS Cost Elements: Fiscal Years				P-1 Line Item Nomenclature: CTG MORTAR 120MM FULL RANGE PRACTICE M9 (E25507)				RFP Issue Date	
				Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$
1. Modified System Contract, M931									
FY 96				SS/FP	TACOM	Mar-97	Oct-98	37176	276
FY 97				OPT	TACOM	Mar-97	Jan-99	126500	254
1a. LAP M931									
FY 98				C/FP	TACOM	May-98	Jan-00	78052	115
FY 99				OPT	TACOM	Jan-99	Jul-00	96522	117
2. SHELL BODY									
FY 96				SS/FP	TACOM	Aug-96	Jun-97	38663	107
FY 97				OPT	TACOM	Mar-97	Jan-98	131560	101
FY 98				OPT	TACOM	Jan-98	Oct-98	81174	109
FY 99				OPT	TACOM	Jan-99	Oct-99	100383	115
3. FIN ASSEMBLY M34									
FY 98				OPT	TACOM	Jan-98	May-98	81174	39
FY 99				OPT	TACOM	Jan-99	May-99	100383	40
4. PROP CHARGE M233									
FY 98				C/FP	TACOM	Mar-98	May-99	320013	13
FY 99				OPT	TACOM	Jan-99	Sep-99	395740	14
5. IGNITION CTG M1020									
FY 98				OPT	TACOM	Mar-98	Feb-99	81174	26
FY 99				OPT	TACOM	Jan-99	Dec-99	100383	27
REMARKS: FY96/97 initial production is a combined buy sole source to the development contractor. The M931 LAP will be combined with the M934A1 LAP effort. The LAP procurement will be limited to North American competition.									

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG MORTAR 120MM FULL RANGE PRACTICE M9 (E25507)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost	Specs Avail Now?	Date RFP Issue	
Fiscal Years						Each	\$		Revsn. Avail	
6. FUZE TRNG M781 FY98 FY 99	Unknown Unknown	C/FP OPT	TACOM TACOM	May-98 Jan-99	Feb-99 Oct-99	81174 100383	24 25			
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity / Serial No.												February 1998
P-1 Item Nomenclature:												
CTG MORTAR 120MM HE M934A1 WMO FUZE (E25501)												
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
Program Elements for Code B Items:												
Code:												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty					43	33	24					100
Gross Cost	0.0	0.0	0.0	0.0	38.0	29.1	22.2	0.0	0.0	0.0	0.0	89.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	38.0	29.1	22.2	0.0	0.0	0.0	0.0	89.3
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	38.0	29.1	22.2	0.0	0.0	0.0	0.0	89.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The round is used against personnel and materiel providing both fragmentation and blast effect. It consists of a multi-option fuze, tail assembly, and projectile body with a TNT or composition B explosive fill. The round uses the M734A1 multi-option fuze proximity setting to burst at a height over the target which is optimized for lethality. The round expands the total range 1000 meters and has a blast effect 1.5 times greater than the 4.2-in high explosive round it replaces. The M934A1 version incorporates the more reliable and countermeasure resistant M734A1 Multi-option fuze. This item is code A: it has been approved for service use.

JUSTIFICATION:
This procurement is part of the total package fielding effort for the 120mm mortar system. Procurement of the M934A1 supports building a war reserve inventory, which will replace the M934 as the preferred 120mm ammunition.

Type Classification Date: NDI - MAR90 limited rate production - urgent(LPU);
Enhanced Ammunition - M934 standard (STD) MAY92, M934A1 standard (STD) JUN96.
Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG MORTAR 120MM HE M934A1 WMO FUZE (E25501)			Weapon System Type			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
		AMMUNITION HARDWARE												
		1. LAP. M934A1							7669	42844	179	6013	32773	183
		2. SHELL BODY							5447	44558	122	4057	34084	119
		3. FIN ASSEMBLY M31							1764	44558	40	1369	34084	40
		4. IGNITION CTG M1020							1180	44558	26	919	34084	27
		5. PROP CHARGE M234							2333	175660	13	1811	134369	13
		6. FUZE M734A1							13917	44558	312	9361	34084	275
		7. PA153 CONTAINER							481	44558	11	370	34084	11
		8. PA154 CONTAINER							792	22279	36	617	17042	36
		SubTotal AMMO Hardware							33583			24527		
		Production Support Costs												
		Production Engineering							1295			1279		
		Quality Assurance							304			300		
		Acceptance Testing							800			787		
		Interim Transportation							324			319		
		SubTotal Prod. Support							2723			2685		
		COST - Nonrecurring												
		First Article Test							1730			1875		
		Calibration Lot												
		SubTotal COST-Nonrecurring							1730			1875		
		TOTAL							38036		888	29087		843

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No:					Date: February 1998				
PROCUREMENT OF AMMUNITION / 1 / Ammunition					P-1 Line Item Nomenclature: CTG MORTAR 120MM HE M934 WIMO FUZE (E25501)				
WBS Cost Elements:					CTG MORTAR 120MM HE M934 WIMO FUZE (E25501)				
Fiscal Years					CTG MORTAR 120MM HE M934 WIMO FUZE (E25501)				
Contractor and Location					Contract Method and Type				
Award Date					Date of First Delivery				
Location of PCO					QTY Each				
Unit Cost \$					Specs Avail Now?				
RFP Issue Date					Date Revisn Avail				
1. LAP, M934A1									
FY 98									
FY 99									
2. SHELL BODY									
FY 98									
FY 99									
3. FIN ASSEMBLY M31									
FY 98									
FY 99									
4. IGNITION CTG M1020									
FY 98									
FY 99									
5. PROP CHARGE M234									
FY 98									
FY 99									
6. FUZE M734A1									
FY 98									
FY 99									
7. PA153 CONTAINER									
FY 98									
FY 99									
REMARKS:					120mm components (M31 fin, M1020 ignition cartridge, M734A1 fuze, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds. The LAP effort and M734A1 fuze procurements will be limited to North American competition. The M934A1 LAP effort will be combined with the M931 LAP on one contract.				

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:									
PROCUREMENT OF AMMUNITION / 1 / Ammunition		CTG MORTAR 120MM HE M934 W/MO FUZE (E25501)									
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Fiscal Years											
8. PA154 CONTAINER FY 98 FY 99	Brockway STD, Atlanta, GA Unknown	OPT C/FP	TACOM TACOM	Jan-98 Mar-99	Jun-98 Sep-99	22279 17042	36 36	Yes Yes			
REMARKS: 120mm components (M31 fin, M1020 ignition cartridge, M734A1 fuze, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds.											

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
P-1 Item Nomenclature:												
CTG MORTAR 120MM ILLUM XM930 WMTSQ FZ (E25503)												
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
Program Elements for Code B Items:												
Code:												
Other Related Program Elements:												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty			13	2							15	
Gross Cost	0.0	0.0	26.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	28.9	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	26.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	28.9	
Initial Spares												
Total Proc Cost	0.0	0.0	26.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	28.9	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The round is used to illuminate target areas during night operations. It consists of a two-piece body filled with illuminating flare, fuze, and tail assembly. It bursts over a target, producing bright illumination which is more intense and effective than the 4.2-in illumination round it replaces. This budget line also funds the XM983 Infrared Illumination Round. The round is range matched to the 120mm high explosive (HE) and smoke cartridges. This item is code B: It has not been type classified and has not been approved for service use.

JUSTIFICATION:
This procurement is part of the total package fielding effort for the 120mm mortar system. The FY97 procurement provides a calibration lot and builds war reserve inventory in accordance with the Army's procurement goals.

Type Classification Date: MAR 98 standard (STD)

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG MORTAR 120MM ILLUM XM930 WMTSQ FZ (E25503)				Weapon System Type:		Date: February 1998			
ID	CD	FY 96		FY 97		FY 98		FY 99		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost						
Ammunition Cost Elements		\$000	Each	\$	\$000	\$000	Each	\$	\$000	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE															
1. XM930/983, LAP					4347	13222	329	652	1962	333					
2. SHELL BODY					3622	13751	263	462	2040	226					
3. FIN ASSEMBLY M31					532	13751	39	81	2040	40					
4. CANNISTER ASSY					2385	6875	347	259	1020	254					
5. IR CANNISTER ASSY					2097	6875	305	318	1020	312					
6. IGN CTG M1020					356	13751	26	54	2040	26					
7. PROP CHG M234					704	55004	13	107	8044	13					
8. FUZE M776					1743	13751	127	265	2040	130					
9. PA153 CONTAINER					148	13751	11	22	2040	11					
10. PA154 CONTAINER					260	6875	38	36	1020	36					
SubTotal AMMO Hardware					16194			2256							
Production Support Costs															
Production Engineering					2046			368							
Quality Assurance					495			36							
Acceptance Testing					694			232							
Interim Transportation					195			41							
SubTotal Prod. Support					3430			677							
COST - Nonrecurring															
1. Calibration Lot					3990										
2. First Article/Initial Production Test					2329										
SubTotal COST-Nonrecurring					6319										
TOTAL					25943			2933							

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No.				Weapon System Type			Date:		
PROCUREMENT OF AMMUNITION / 1 / Ammunition				Contract Method and Type			P-1 Line Item Nomenclature:		
WBS Cost Elements:				Contractor and Location			CTG MORTAR 120MM ILLUM XM930 WINTSQ FZ (E25503)		
Fiscal Years				Location of PCO			Date of First Delivery		
							Award Date		
							QTY Each		
							Unit Cost \$		
							Specs Avail Now?		
							Date Revisn Avail		
							RFP Issue Date		
1. XM930/983, LAP				Pine Bluff Arsenal, Pine Bluff, AR			TACOM		
FY 97				Pine Bluff Arsenal, Pine Bluff, AR			SS/CR		
FY 98							SS/CR		
2. SHELL BODY				Chamberlain Mfg., Scranton, PA			TACOM		
FY 97				Chamberlain Mfg., Scranton, PA			OPT		
FY 98							OPT		
3. FIN ASSEMBLY M31				Valentec Systems Inc., Mt. Arlington, NJ			TACOM		
FY 97				Valentec Systems Inc., Mt. Arlington, NJ			OPT		
FY 98							OPT		
4. CANNISTER ASSY				Crane AAA, Crane, IN			TACOM		
FY 97				Crane AAA, Crane, IN			SS/CR		
FY 98							SS/CR		
5. IR CANNISTER ASSY				Crane AAA, Crane, IN			TACOM		
FY 97				Crane AAA, Crane, IN			SS/CR		
FY 98							SS/CR		
6. IGN CTG M1020				Unknown			TACOM		
FY 97				Unknown			C/FP		
FY 98							OPT		
7. PROP CHG M234				Valentec Systems Inc., Mt. Arlington, NJ			TACOM		
FY 97				Unknown			C/FP		
FY 98							C/FP		
8. FUZE M776				Diehl GMBH, Schramberg, GER			TACOM		
FY 97				Diehl GMBH, Schramberg, GER			SS/FP		
FY 98							OPT		
9. PA153 CONTAINER				Omega Container Inc., Arcadia, LA			TACOM		
FY 97				Omega Container Inc., Arcadia, LA			OPT		
FY 98							OPT		
REMARKS:				Pine Bluff Arsenal and Crane Army Ammunition Activity are government owned - government operated facilities. These activities are issued work orders, not contracts. 120mm mortar components (Shell bodies, M31 fin, M234 prop charge, M1020 ignition cartridge, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds. Due to late TC of M930/M983, FY97 & FY98 programs will be executed as a single buy.					

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:			Weapon System Type:			P-1 Line Item Nomenclature:				February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG MORTAR 120MM ILLUM XM930 WMTSQ FZ (E25503)				
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years 10. PA154 CONTAINER FY 97 FY 98	Brockway STD, Atlanta, GA Brockway STD, Atlanta, GA	OPT OPT	TACOM TACOM	Jul-97 Jan-98	Nov-97 #####	6875 1020	38 36			
REMARKS: Pine Bluff Arsenal and Crane Army Ammunition Activity are government owned - government operated facilities. These activities are issued work orders, not contracts. 120mm mortar components (Shell bodies, M31 fin, M234 prop charge, M1020 ignition cartridge, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds.										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity / Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
P-1 Item Nomenclature:												
CTG MORTAR 120MM SMOKE M929 WMO FUZE (E25504)												
Program Elements for Code B Items:												
Code:												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty			57	27			21	23	23	19		170
Gross Cost	0.0	0.0	65.8	34.9	0.0	0.0	25.4	25.9	26.6	23.7	0.0	202.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	65.8	34.9	0.0	0.0	25.4	25.9	26.6	23.7	0.0	202.4
Initial Spares												
Total Proc Cost	0.0	0.0	65.8	34.9	0.0	0.0	25.4	25.9	26.6	23.7	0.0	202.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The round is used to provide smoke, with some incendiary effect, for various screening uses. It consists of a body with smoke composition filler, fuze, and tail assembly. It bursts over or on a target, producing dense smoke which is 100 percent greater than the 4.2-in smoke round it replaces. The round is range matched to the 120mm high explosive (HE) and illuminating cartridges. This cartridge uses the advanced M734A1 Multi-option fuze, which has greatly improved height-burst and ECM capabilities. This item is code A: it has been type classified and approved for service use.

JUSTIFICATION:
This procurement is part of the total package fielding effort for the 120mm mortar system.
FY97 procurement builds war reserve inventory and supports annual peacetime training requirements in accordance with the Army's procurement goals.

Type Classification Date: NDI - MAR 90 limited procurement - urgent(LPU);
Enhanced Ammunition - XM929, limited rate production (LRP) MAY 92; M929, standard (STD) JUN 96.
Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG MORTAR 120MM SMOKE M929 WMO FUZE (E25504)			Weapon System Type:		Date: February 1998			
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE														
		1. LAP, M929	17623	56625	311	8745	27499	318						
		2. SHELL BODY	10159	58890	173	5436	28599	190						
		3. IGN CTG M981	1492	58890	25									
		3a. IGN CTG M1020				740	28599	26						
		4. FIN ASSEMBLY M31	2309	58890	39	1107	28599	39						
		5. PROP CHG M230	2951	232163	13									
		5a. PROP CHG M234												
		6. FUZE M734A1				1463	112746	13						
		7. PA153 CONTAINER	23544	58890	400	9761	28599	341						
		8. PA154 CONTAINER	626	58890	11	308	28599	11						
		ROYALTY 3% to General Dynamics	1018	29445	35	540	14299	38						
		SubTotal AMMO Hardware	507			262								
			60229			28362								
Production Support Costs														
		Production Engineering	1225			2525								
		Quality Assurance	209			474								
		Acceptance Testing	647			652								
		Interim Transportation	304			360								
		SubTotal Prod. Support	2385			4011								
COST - Nonrecurring														
		1. M734A1 Materiel Change	2102			2563								
		2. PVT	1096											
		SubTotal COST-Nonrecurring	3198			2563								
TOTAL			65812		1162	34936		1270						

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No:				Weapon System Type:			P-1 Line Item Nomenclature:		
PROCUREMENT OF AMMUNITION / 1 / Ammunition							CTG MORTAR 120MM SMOKE M929 WIMO FUZE (E25504)		
WBS Cost Elements:				Contract Method and Type		Location of PCO		Award Date	
Fiscal Years									
				Contractor and Location				Date of First Delivery	
								QTY Each	
								Unit Cost \$	
								Specs Avail Now?	
								Date Revisn Avail	
								RFP Issue Date	
1. LAP, M929				Pine Bluff Arsenal Pine Bluff, AR		TACOM		Aug-96	
FY 96				Pine Bluff Arsenal Pine Bluff, AR		TACOM		Mar-97	
FY 97									
2. SHELL BODY				Chamberlain Mfg. Scranton, PA		TACOM		Aug-96	
FY 96				Chamberlain Mfg. Scranton, PA		TACOM		Mar-97	
FY 97									
3. IGN CTG M981				General Dynamics Milan, TN		TACOM		Sep-96	
FY 96									
3a. IGN CTG M1020				Unknown		TACOM		Feb-98	
FY 97									
4. FIN ASSEMBLY M31				Valentec Systems, Inc. Mt. Arlington, NJ		TACOM		Sep-96	
FY 96				Valentec Systems, Inc. Mt. Arlington, NJ		TACOM		Apr-97	
FY 97									
5. PROP CHG M230				Valentec Systems, Inc. Mt. Arlington, NJ		TACOM		Sep-97	
FY 96									
5a. PROP CHG M234				Valentec Systems, Inc. Mt. Arlington, NJ		TACOM		Sep-97	
FY 97									
6. FUZE M734A1				KDI Cincinnati, OH		TACOM		Apr-96	
FY 96				KDI Cincinnati, OH		TACOM		Sep-96	
FY 96				KDI Cincinnati, OH		TACOM		Mar-97	
FY 97									
REMARKS:				120mm mortar components (Shell bodies, M1020 ignition cartridge, M31 fin, M234 prop charge, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds.					

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:			Weapon System Type:			P-1 Line Item Nomenclature:				February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG MORTAR 120MM SMOKE M928 WIMO FUZE (E25504)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
7. PA153 CONTAINER FY 96 FY 97	Omega Container Inc. Arcadia, LA Omega Container Inc. Arcadia, LA	C/FP OPT	TACOM TACOM	Sep-96 Sep-97	Dec-97 Apr-98	58890 28599	11 11			
8. PA154 CONTAINER FY 96 FY 97	Brockway STD Atlanta, GA Brockway STD Atlanta, GA	C/FP OPT	TACOM TACOM	Sep-96 Mar-97	Mar-97 Sep-97	29445 14299	35 38			
REMARKS: 120mm mortar components (Shell bodies, M1020 ignition cartridge, M31 fin, M234 prop charge, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds.										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No.												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 120MM APFSDS-T M829A2/M829E3 (E78001)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	33	22	23	28	20	2	1	1	4	10		144	
Gross Cost	133.3	81.9	79.8	103.5	71.3	9.7	5.3	19.1	39.9	70.2	0.0	614.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	133.3	81.9	79.8	103.5	71.3	9.7	5.3	19.1	39.9	70.2	0.0	614.0	
Initial Spares													
Total Proc Cost	133.3	81.9	79.8	103.5	71.3	9.7	5.3	19.1	39.9	70.2	0.0	614.0	
Flyaway U/C													
Wpn Sys Proc U/C	4039	3723	3519	3724	3825	6445	11652	9322	8231	7582			

DESCRIPTION:

The 120MM M829A2 Armor Piercing, Fin-Stabilized, Discarding Sabot with Tracer (APFSDS-T), cartridge is designed specifically as an anti-armor kinetic energy round. This round is fired from the M256 120MM cannon mounted on the M1A1 Abrams tank. The propellant system consists of a combustible cartridge case mounted on a steel stub base and filled with kerded propellant. The propellant is ignited by a M129 electric primer. The projectile incorporated a segmented graphite reinforced plastic sabot held in place by a plastic band which separates in flight to allow the discarding of the sabot from the super depleted uranium (SDU) penetrator. A synthetic rubber seal is molded to the base of the sabot assembly to prevent the forward escape of hot propellant gases. The M829A2, although using many similar components of the M829A1 APFSDS-T, has been technologically improved to provide significantly greater armor penetration capability than the older round. This item is code A, approved for service use. This item has not been transitioned to SMCA and will be procured as actual cost in FY99.

JUSTIFICATION:

Procurement builds war reserve inventory in accordance with the Army's procurement goal. The acquisition strategy for FY95-FY98 was sole source multi-year production contract. Production of the M829A2 will provide a "leap-ahead" in tank ammunition technology to enable the U.S. tank fleet to defeat current and postulated threat armor well into the next century. Introduction of this technological advance complies with the objective of Armament Enhancement Initiatives fielding munition deterrent prior to the introduction of a new opposing armored threat. This round encompasses evolutionary advances in technology and represents the most effective tank round in production. The round will replace the currently fielded M829A1 APFSDS-T as production levels rise.

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 120MM APFSDS-T M829A2/M829E3 (E78001)			Weapon System Type:		Date: February 1998			
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$Million	Each	\$000	\$Million	Each	\$000	\$Million	Each	\$000	\$Million	Each	\$000
AMMUNITION HARDWARE														
		Complete Round	76328	22676	3366	93618	27780	3370	67957	20165	3370	6569	1510	4350
SubTotal AMMO Hardware			76328			93618			67957			6569		
Production Support Costs														
		Production Engineering	1980			2150			1829			1668		
		Quality Assurance	725			910			725			725		
		Acceptance Testing	775			1024			775			770		
SubTotal Prod. Support			3480			4084			3329			3163		
Nonrecurring Cost														
		1. Expired year bill				5786								
TOTAL			79808		3519	103488		3724	71286		3825	9732		6445

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG 120MM APFSDS-T M829A2/M829E3 (E78001)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
1. COMPLETE ROUND										
FY96	Olin Ordnance Corp St. Petersburg, FL	SSM-4/F	ARDEC	Mar-96	Jan-97	22676	3366	yes	no	
FY97	Primex Technologies St. Petersburg, FL	SSM-4/F	ARDEC	Feb-97	Dec-97	23664	3370	yes	no	
FY97	Primex Technologies St. Petersburg, FL	SSM-4/F	ARDEC	Jan-98	Dec-98	4116	3370	yes	no	
FY98	Primex Technologies St. Petersburg, FL	SSM-4/F	ARDEC	Jan-98	Feb-99	13382	3370	yes	no	
FY98	Primex Technologies St. Petersburg, FL	SS-Optio	ARDEC	Jan-99	Nov-99	6783	3370	yes	no	
FY99	St. Petersburg, FL Primex Technologies	SS-Optio	ARDEC	Jan-99	Apr-00	1510	4350	yes	no	
REMARKS: Primex Technologies spun-off from Olin Ordnance Corp in Jan 97.										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
Program Elements for Code B Items:												CTG 120MM HEAT-MP-T M830A1 (E78007)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	52	13		9	3							77
Gross Cost	186.6	43.8	0.0	30.9	7.8	0.0	0.0	0.0	0.0	0.0	0.0	269.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	186.6	43.8	0.0	30.9	7.8	0.0	0.0	0.0	0.0	0.0	0.0	269.1
Initial Spares												
Total Proc Cost	186.6	43.8	0.0	30.9	7.8	0.0	0.0	0.0	0.0	0.0	0.0	269.1
Flyaway U/C												
Wpn Sys Proc U/C	3588	3369		3556	3008.0							

DESCRIPTION:
The 120MM M830A1 Multi-Purpose (MP) cartridge is effective against light armor, air defense and materiel. This round is fired from the M256 120MM cannon mounted on the M1A1 Abrams tank. Appropriate targets include lightly armored vehicles with reactive armor, helicopters, buildings and bunkers, the side and rear aspects of tanks, and dismounted anti-tank and automatic weapons teams. The fixed round utilizes a combustible cartridge case affixed to a steel stub and loaded with granular propellant. The fin-stabilized, high chrome alloy steel projectile body is press-loaded with explosive, a precision copper liner and booster. The base element is armed during launch and initiated by an impact switch or proximity sensor, depending upon the operational mode selected by the tank crew. Arming is accomplished through the ballistic environment of firing, set back and deceleration. This item is code A, approved for service use. This item has not transitioned to SMCA and will be procured as actual cost in FY99.

JUSTIFICATION:
Procurement builds war reserve inventory in accordance with the Army's procurement goal. The production and fielding of the M830A1 provides increased accuracy when compared to the currently fielded M830 High Explosive Anti-Tank Multi-Purpose with Tracer (HEAT-MP-T) cartridge, due to reduced time of flight. For the first time ever, the M830A1 provides the individual tank crew with the self-defense capability to engage and defeat attacking helicopter platforms. The M830A1 replaces the currently fielded M830 round to provide significantly enhanced capability to the 120MM gun tank fleet.

Acquisition Manager: Project Manager, Tank Main Armaments (PM-TMAS).

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 120MM HEAT-MP-T M830A1 (E78007)			Weapon System Type:			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$Million	Qty Each	UnitCost \$000	TotalCost \$Million	Qty Each	UnitCost \$000	TotalCost \$Million	Qty Each	UnitCost \$000	TotalCost \$Million	Qty Each	UnitCost \$000
		AMMUNITION HARDWARE Complete Round				26525	8700	3049	6596	2600	2537			
		SubTotal AMMO Hardware	26525						6596					
		Production Support Costs Production Engineering	2858						580					
		Quality Assurance	910						325					
		Acceptance Testing	650						320					
		SubTotal Prod. Support	4418						1225					
		TOTAL	30943					3556	7821		3008			

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:							
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG 120MM HEAT-MP-T M830A 1 (E78007)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date	
Fiscal Years											
1. COMPLETE ROUND FY97	Alliant Techsystems Minneapolis, MN	SS/FP	AMCCOM	Sep-97	Aug-98	8700	3049	yes	no		
FY98	Alliant Techsystems Minneapolis, MN	SS/Option	AMCCOM	Jan-98	Jan-99	2600	2537	yes	no		
REMARKS:											

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
Program Elements for Code B Items:												CTG TANK 120MM TP-T M831M831A1 (E73300)
Other Related Program Elements:												
Code: A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	550	40	93	93	105	86	85	85	84		1263	
Gross Cost	499.7	29.6	29.1	54.5	60.4	49.9	49.1	48.8	47.8	0.0	931.0	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	499.7	29.6	29.1	54.5	60.4	49.9	49.1	48.8	47.8	0.0	931.0	
Initial Spares												
Total Proc Cost	499.7	29.6	29.1	54.5	60.4	49.9	49.1	48.8	47.8	0.0	931.0	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The 120mm M831A1 Target Practice-Tracer (TP-T) is a target practice round that simulates the ballistics of the chemical energy service round (M830). This round is fired from the M256 120mm smooth bore cannon on the M1A1/M1A2 Abrams tank. The projectile is inert and is composed of a steel spike aluminum body, ring, stabilizer, nylon obturator, and tracer. The stabilizer spins the round in flight. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. Tank crews conduct live fire training with this round to meet and maintain gunnery proficiency. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. The acquisition strategy for FY 95 - FY 98 was a sole source. The FY 1999 - 2003 is a new multi-year program.

TYPE CLASSIFICATION DATE:

1993

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG TANK 120MM TP-T M831/M831A1 (E73300)				Weapon System Type.		Date. February 1998			
Ammunition Cost Elements		FY 96				FY 97				FY 98				FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$		
AMMUNITION HARDWARE															
Complete Round		22822	40395	564.97	49061	92692	529.30	52325	92616	564.97	57540	105000	548.00		
SubTotal AMMO Hardware		22822			49061			52325			57540				
Production Support Costs															
Production Engineering		707			39			5348			2110				
Quality Assurance		32						131			736				
Acceptance Testing		262						602							
Interim Transportation		87						377							
Industrial Stock Support		970			1			1852							
CAWCF Gain/Loss Surcharge		4172			5401										
SubTotal Prod. Support		6230			5441			8310			2846				
TOTAL		29052		719.21	54502		587.99	60635		654.69	60386		575.10		

Exhibit P-5a, Budget Procurement History and Planning																						
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:		P-1 Line Item Nomenclature: CTG TANK 120MM TP-T M831/M831A1 (E73300)																
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$		Specs Avail Now?		Date Revisn Avail		RFP Issue Date		
Complete Round FY 96		Alliant Tech Sys, Inc New Brighton, MN		CM-2/FP IOC		IOC		Jan-96		Oct-96		24695		#494.85								
FY 96		Olin Corp. St. Petersburg, FL		CM-2/FP IOC		IOC		Jan-96		Nov-96		15700		#603.16								
FY 97		Alliant Tech Sys, Inc New Brighton, MN		CM-3/FP IOC		IOC		Nov-96		Oct-97		64562		#509.41		Yes				Oct-96		
FY 97		Primex Tech, Inc St. Petersburg, FL		CM-3/FP IOC		IOC		Nov-96		Nov-97		28130		#589.49		Yes				Oct-96		
FY 98		Alliant Tech Sys, Inc New Brighton, MN		CM-4/FP IOC		IOC		Dec-97		Oct-98		47698		#504.74		Yes				Oct-97		
FY 98		Primex Tech, Inc St. Petersburg, FL		CM-4/FP IOC		IOC		Dec-97		Nov-98		44918		#596.11		Yes				Oct-97		
FY 99		TBS		CM-5/FP IOC		IOC		Jan-99		Oct-99		105000		548.00		Yes				Oct-98		
REMARKS: # FY 96 - FY 98, Actual Contract Price (Average of Basic and Options) Multi-Year Procurement FY 95 - FY 98 FY 99 is the 1st year of the FY 99 - FY 03 Multi-Year. TBS - To Be Selected																						

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
Program Elements for Code B Items:												CTG TANK 120MM TPCSDS-T M865 (E73400)
Code:												Other Related Program Elements:
A												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	1411	116	132	211	192	240	239	176	221	198		3136
Gross Cost	943.5	78.0	90.0	115.4	116.7	129.9	126.4	94.0	115.8	103.4	0.0	1913.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	943.5	78.0	90.0	115.4	116.7	129.9	126.4	94.0	115.8	103.4	0.0	1913.1
Initial Spares												
Total Proc Cost	943.5	78.0	90.0	115.4	116.7	129.9	126.4	94.0	115.8	103.4	0.0	1913.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The 120mm M865 Target Practice Cone-Stabilized Discarding Sabot with Tracer (TPCSDS-T) is a target practice round that simulates the ballistics of the 120mm M829A2 Armor Piercing Fin-Stabilized Discarding Sabot with Tracer round. This round is fired from the M256 120mm cannon on the M1A1/M1A2 Abrams tank. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. The requested ammunition is required to support annual tank proficiency training for 120mm-gunned tanks. Training with this round simulates the firing of the Army's most lethal armor-defeating kinetic energy round in support of Army readiness objectives. The acquisition strategy for FY 95 - FY 98 was a sole source. FY1999 is the first year of a five year multi-year program.

TYPE CLASSIFICATION DATE:

1984

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG TANK 120MM TPCSDS-T M865 (E73400)			Weapon System Type:			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		AMMUNITION HARDWARE Complete Round	69109	132	524.01	103420	211	490.92	100687	192	524.01	125520	240	523.00
		SubTotal AMMO Hardware	69109			103420			100687			125520		
		Production Support Costs												
		Production Engineering	2142			145			10290			3573		
		Quality Assurance	97						252			821		
		Acceptance Testing	795						1158					
		Interim Transportation	263			154			725					
		Industrial Stock Support	2936						3564					
		CAWCF Gain/Loss Surcharge	12633			11437								
		SubTotal Prod. Support	18866			11736			15989			4394		
		COST - Nonrecurring												
		HATR Safety Modification	2000			250								
		SubTotal COST-Nonrecurring	2000			250								
		TOTAL	89975		667.06	115406		546.63	116676		607.22	129914		541.31

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No:			Weapon System Type:			Date: February 1998			
PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG TANK 120MM TPCSDS-T M865 (E73400)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	RFP Issue Date
Complete Round									
FY 96	Alliant Tech Sys, Inc New Brighton, MN	CM-2/FP IOC	IOC	Jan-96	Oct-96	81839	# 483.54		
FY 96	Olin Corp. St. Petersburg, FL	CM-2/FP IOC	IOC	Jan-96	Nov-96	50045	# 560.08		
FY 97	Alliant Tech Sys, Inc New Brighton, MN	CM-3/FP IOC	IOC	Nov-96	Oct-97	143908	# 485.49	Yes	Oct-96
FY 97	Primex Tech, Inc St. Petersburg, FL	CM-3/FP IOC	IOC	Nov-96	Nov-97	66757	# 548.85	Yes	Oct-96
FY 98	Alliant Tech Sys, Inc New Brighton, MN	CM-4/FP IOC	IOC	Dec-97	Oct-98	114257	#488.20	Yes	Oct-97
FY 98	Primex Tech, Inc St. Petersburg, FL	CM-4/FP IOC	IOC	Dec-97	Nov-98	77890	#558.72	Yes	Oct-97
FY 99	TBS	CM-5/FP IOC	IOC	Jan-99	Oct-99	240000	523.00	Yes	Oct-98
REMARKS: # FY 96 and FY 98, Actual Contract Price (Average of Basic and Options) Multi-Year Procurement FY 95 - FY 98 FY 99 is the first year of the FY 99 - FY 03 Multi-Year. TBS - To Be Selected									

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG ARTY 75MM BLANK M337A1 (E15200)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	675		39		70	34	34	32	32			916	
Gross Cost	12.3	0.0	1.5	0.0	2.9	1.6	1.6	1.5	1.5	0.0	0.0	22.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	12.3	0.0	1.5	0.0	2.9	1.6	1.6	1.5	1.5	0.0	0.0	22.9	
Initial Spares													
Total Proc Cost	12.3	0.0	1.5	0.0	2.9	1.6	1.6	1.5	1.5	0.0	0.0	22.9	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The 75mm blank cartridge is used on the Pack 75 howitzer for ceremony, parade, and training purposes. The cartridge consists of a brass aluminum cartridge case containing loosely packed black powder and a press-fitted percussion primer. A fiber wad is inserted over the black powder and a polystyrene closing cap is cemented in place with a polyster resin adhesive. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports Presidential and VIP salutation, simulated firing, and annual peacetime training.

TYPE CLASSIFICATION DATE:

1975

Exhibit P-5, Weapon Ammo Cost Analysis

Ammunition Cost Elements		FY 96			FY 97			FY 98			FY 99		
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE													
Load, Assemble and Pack													
*Black Powder, Class 1 (LB)													
Primer Perc M1B1A2													
*Primer Perc M61													
SubTotal AMMO Hardware													
Production Support Costs													
Production Engineering													
Quality Assurance													
Acceptance Testing													
Interim Transportation													
Industrial Stock Support													
CAWCF Gain/Loss Surcharge													
SubTotal Prod. Support													
COST - Nonrecurring													
*Government Furnished Material													
SubTotal COST-Nonrecurring													
TOTAL													

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:			Date: February 1998		
PROCUREMENT OF AMMUNITION / 1 / Ammunition					CTG ARTY 75MM BLANK M337A1 (E15200)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
Load, Assemble and Pack FY 96	Mason-Hanger Silas (Iowa AAP) Middleton, IA	SS/CPFF IOC	IOC	Mar-97	Sep-97	39487	22.45			Oct-97
FY 98	Mason-Hanger Silas (Iowa AAP) Middleton, IA	SS/CPFF IOC	IOC	Mar-98	Jun-99	70000	30.49	YES		
FY 99***	Mason-Hanger Silas (Iowa AAP) Middleton, IA	SS/CPFF IOC	IOC	Mar-00	Jun-00	34000	42.76	YES		Oct-98
*Black Powder, Class 1 (LB) FY 96	Stock Issue	N/A	N/A	N/A	N/A	55282	N/A	N/A		N/A
FY 98	Stock Issue	N/A	N/A	N/A	N/A	98000	N/A	N/A		N/A
FY 99	Plant Procured	N/A	N/A	N/A	N/A		N/A	N/A		N/A
Primer Perc M1B1A2 FY 96	Day & Zimmerman (Lone Star AAP)	SS/CPFF IOC	IOC	Nov-96	Mar-97	40277	5.07			Oct-97
FY 98	Day & Zimmerman (Lone Star AAP) Texarkana, TX	SS/CPFF IOC	IOC	Mar-98	Mar-99	71400	5.33	YES		
FY 99	Plant Procured	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
REMARKS: *Government Furnished Material ***Complete Round										

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998									
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:																		
PROCUREMENT OF AMMUNITION / 1 / Ammunition		CTG ARTY 75MM BLANK M337A1 (E15200)																		
WBS Cost Elements:		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$		Specs Avail Now?		Date Reven Avail		RFP Issue Date		
Fiscal Years		Contractor and Location																		
*Primer Perc M61		Day & Zimmerman (Lone Star AAP)		SS/CPFF IOC		Nov-96		Mar-97		40672		0.58								
FY 96				N/A		N/A		N/A		72100		N/A		N/A		N/A		N/A		
FY 98		Stock Issue		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		
FY 99		Plant Procured																		
REMARKS: * Government Furnished Material																				

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998	
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature:										CTG ARTY 105MM DPICM XM915 (E53500)		
PROCUREMENT OF AMMUNITION / 1 / Ammunition		Other Related Program Elements:												
Program Elements for Code B Items:		Code:		B										
64802/D531		Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty					5	4							9	
Gross Cost	0.0	0.0	0.0	0.0	13.5	9.8	0.0	0.0	0.0	0.0	0.0	0.0	23.3	
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	0.0	0.0	0.0	0.0	13.5	9.8	0.0	0.0	0.0	0.0	0.0	0.0	23.3	
Initial Spares														
Total Proc Cost	0.0	0.0	0.0	0.0	13.5	9.8	0.0	0.0	0.0	0.0	0.0	0.0	23.3	
Flyaway U/C														
Wpn Sys Proc U/C														

DESCRIPTION:
The 105MM Dual Purpose Improved Conventional Munition (DPICM) XM915 is the extended range round for the M119A1 howitzer. This cartridge incorporates the M200 propelling charge whose projectiles contain a sub-munition payload of 42 dual purpose XM80 grenades. The projectiles utilize a one piece all steel body/ogive assembly which is scalloped to contain the cargo without additional ancillary hardware (keys, splines, spacers, etc.). Projectile functioning is the same as the 155mm ICM round, the M483A1. The XM80 is a 1.22 inch diameter fragmentation/shaped charge grenade optimized for the 105mm system. It uses a post embossed Rhombus fragmentation pattern for superior anti-personnel performance. In response to the problem of hazardous battlefield duds, the XM80 grenade will be the first ICM bombulet to utilize self destruct fuzing. This item is code B, PE 64802, not approved for service use. This item has not transitioned to the SMCA and will be produced as actual cost.

JUSTIFICATION:
Procurement supports the acquisition of a more lethal artillery round and provides "deep strike" round capability for the Light Infantry Division (LID). It increases sustainability of the LID on the battlefield. It replaces the Cartridge, 105mm and Anti-Personnel (APICM), M444. By utilizing a self-destruct fuze with sub-munition, the dud rate problem of any unexploded sub-munitions should be greatly reduced. Procurement builds war reserve stockpiles in support of the Army's procurement goal.

Type Classification Date: TC LRP February 1998
TC STD September 1998

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: CTG ARTY 105MM DPICM XM915 (E53500)		Weapon System Type: M119A1 howitzer		Date: February 1998	
Ammunition Cost Elements			FY 96		FY 97		FY 98		FY 99	
ID			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
CD			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000
B										
AMMUNITION HARDWARE										
1. Load, Assemble, and Pack			1,169	5	256.92	956	4	262.64		
2. Proj Mtl Parts			3,663	5	750.00	2,802	4	766.62		
3. Fuze, ET M762			341	5	69.82	457	4	125.03		
4. Gren Body Assy			1,934	205	9.43	1,480	153	9.64		
5. Fuzes, XM234 Gren SD			3,077	205	15.00	2,353	153	15.33		
6. Cartridge Case XM217			221	5	45.25	169	4	46.24		
7. Container PA 117			346	5	70.84	265	4	72.50		
8. Other Hardware			746			566				
SubTotal AMMO Hardware			11,497			9,048				
Production Support Costs										
1. Production Engineering			1016			414				
2. Quality Assurance			55			13				
3. Proof & Acceptance			330			260				
4. Interim Transportation			109			86				
SubTotal Prod. Support			1,510			773				
COST - Nonrecurring										
1. Government Furnished Material			-132			-96				
2. First Article Testing			100			50				
3. Firing Tables/Software Update			500							
SubTotal COST-Nonrecurring			468			-46				
TOTAL			13,475		2,961.54	9,775		2,686.44		

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No:			Weapon System Type:			P-1 Line Item Nomenclature:						Date:
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG ARTY 105MM DPICM XM915 (E53500)						February 1998
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date		
Fiscal Years						Each						
1. Load, Assemble, and Pack												
FY 97	Day & Zimmerman Inc	SS/CPFF	IOC	Mar-98	Feb-99	4,550	256.92					
FY 98	Day & Zimmerman Inc (Lone Star AAP)	SS/CPFF	IOC	Mar-98	Aug-99	3,640	262.64	Yes				
2. Proj Mtl Parts												
FY 97	Chamberlain Mfg. (Scranton, PA)	SS/FP	TACOM-ARDEC	Mar-98	Aug-98	4,884	750.00					
FY 98	Chamberlain Mfg. (Scranton, PA)	SS/FP	TACOM-ARDEC	Mar-98	Feb-99	3,655	766.62	Yes				
3. Fuze, ET M762												
FY 97	Multiple	Stock	IOC	Stock	Stock	4,884	69.82					
FY 98	Multiple	Stock	IOC	Stock	Stock	3,655	125.03	Yes				
4. Gren Body Assy												
FY 97	Amron Corporation	SS/FP	TACOM-ARDEC	Mar-98	Aug-98	205,103	9.43					
FY 98	Amron Corporation Waukesha, Wis.	SS/FP	TACOM-ARDEC	Mar-98	Feb-99	153,492	9.64	Yes				
5. Fuzes, XM234 Gren SD												
FY 97	KDI Precision Products	SS/FP	TACOM-ARDEC	Mar-98	Aug-98	205,103	15.00					
FY 98	KDI Precision Products Cincinnati, OH	SS/FP	TACOM-ARDEC	Mar-98	Feb-99	153,492	15.33	Yes				
6. Cartridge Case XM217												
FY 97	UNKNOWN	C/FP	TACOM-ARDEC	Mar-98	Aug-98	4,884	45.25					
FY 98	UNKNOWN	C/FP	TACOM-ARDEC	Mar-98	Feb-99	3,655	46.24	Yes				
7. Container PA 117												
FY 97	UNKNOWN	C/FP	TACOM-ARDEC	Apr-98	Sep-98	4,884	70.84					
FY 98	UNKNOWN	C/FP	TACOM-ARDEC	Apr-98	Mar-99	3,655	72.50	Yes				
REMARKS: * GFM as shown on the P5 consists of COMP A5 and M10 Propellant and are part of the Other Hardware line.												

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
Program Elements for Code B Items:												PROJ ARTY 155MM SMOKE WP M825 (E67800)
Other Related Program Elements:												
Code:												
A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	460										460	
Gross Cost	189.4	0.0	5.0	11.6	12.3	0.0	0.0	0.0	0.0	0.0	218.3	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	189.4	0.0	5.0	11.6	12.3	0.0	0.0	0.0	0.0	0.0	218.3	
Initial Spares												
Total Proc Cost	189.4	0.0	5.0	11.6	12.3	0.0	0.0	0.0	0.0	0.0	218.3	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The M825 series 155mm white phosphorous (WP) smoke projectile is designed to be ballistically similar to the M483A1 family of projectiles and is compatible with all current and developmental U.S. 155mm artillery weapon systems. The M825 series projectile is required to provide fire support to forward area troops and equipment. Artillery delivered smoke screens are required in combat situations to support maneuver forces by reducing the effectiveness of enemy visual observation. The M825 series projectile consists of a modified M483A1 carrier, a felt wedge payload, a base, and a separately issued fuze. The modified carrier uses steel instead of the standard M483A1 fiber glass wrap about the circumference of the projectile carrier to offset the low density of the payload. The payload consists of 116 WP soaked felt wedges in a hermetically sealed canister positioned in the projectile body between the ogive and the base. The canister is a cylinder of thin rolled steel to which flat steel ends are welded. Either a mechanical or electronic time fuze is used to detonate the expulsion charge setting off a chain reaction resulting in the expulsion, ignition, and dissemination of the felt wedges thus creating the desired smoke screen. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training standard item used in both training and combat. Procurement supports an urgently needed materiel change to correct current design defects that result in a high malfunction rate which threatens the safety of the using unit. The purpose of the materiel change is to test an improved design to allow resumption of prior year production and subsequent renovation of existing stocks. Renovation of these stocks is required to support annual peacetime training requirements and build a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1982

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												PROJ ARTY 155MM HE M795 (E66800)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty		79	130	84	74							367	
Gross Cost	0.0	53.6	51.6	39.9	35.2	0.0	0.0	0.0	0.0	0.0	0.0	180.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	53.6	51.6	39.9	35.2	0.0	0.0	0.0	0.0	0.0	0.0	180.3	
Initial Spares													
Total Proc Cost	0.0	53.6	51.6	39.9	35.2	0.0	0.0	0.0	0.0	0.0	0.0	180.3	
Flyaway U/C													
Wpn Sys Proc U/C		0.0007	0.0004	0.0005	0.0005							0.0005	

DESCRIPTION: The M795 projectile consists of 23.8 pounds of TNT explosive loaded into a 78.1 pound high fragmentation steel body assembly. The projectile is fitted with a protective shock attenuating lifting plug at the nose and a grommet which protects the rotating band during shipping and handling. The projectile can use several different fuzes (impact, mechanical time and short intrusion proximity). The M795 will supplement the currently stockpiled M107. It will be used for conventional fire support for Harassment and Interdiction, fragmentation, mining and blast effect. It is also used as a registration round for the M483A1 family of cargo munitions and can be used as a registration round for the 155mm Sense and Destroy Armor (SADARM) M898. It provides greater range and effectiveness than the M107, which cannot be fired at top zone with the M203A1 (Zone 8) charge. This item is Code A, approved for service use.

JUSTIFICATION: The M795 will support the following howitzers: M198, M109 Series, including Paladin, and the Trilateral FH70 and Crusader.

TYPE CLASSIFICATION DATE: February 1982

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: PROJ ARTY 155MM HE M795 (E66800)			Weapon System Type:			Date: February 1998		
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE														
	A	Load, Assemble, and Pack	18333	130	141	11874	84	141	10658	74	145			
		Metal Parts	30528	132	231	22094	85	259	16800	75	224			
		Metal Pallets							2184	10	222			
		Lifting Plugs							558	77	7			
SubTotal AMMO Hardware			48861			33967			30200					
Production Support Costs														
		Production Engineering	1305			3957			3490					
		Quality Assurance	411			574			303					
		Acceptance Testing	1069			1370			1200					
SubTotal Prod. Support			2785			5901			4993					
COST - Nonrecurring														
SubTotal COST-Nonrecurring														
TOTAL			51646		397	39868		473	35193					

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type:		P-1 Line Item Nomenclature: PROJ ARTY 155MM HE M795 (E66800)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 96	Mason & Hanger, Iowa AAP, IA	Option	ARDEC, Picatinny Arsenal	Jun-97	Oct-98	130	141	Yes		Sep-97
FY 97	Mason & Hanger, Iowa AAP, IA	C/FFP	ARDEC, Picatinny Arsenal	Jan-98	Oct-99	84	141	Yes		Jan-98
FY 98	Unknown	C/FFP	ARDEC, Picatinny Arsenal	Jul-98	Oct-00	74	145	Yes		
Metal Parts										
FY 96	Chamberlain, Scranton AAP, PA	Option	ARDEC, Picatinny Arsenal	Aug-96	Jul-98	132	231	Yes		
FY 97	Chamberlain, Scranton AAP, PA	C/FFP	ARDEC, Picatinny Arsenal	Feb-98	Jul-99	85	259	Yes		Sep-97
FY 98	Unknown	C/FFP	ARDEC, Picatinny Arsenal	Jul-98	Oct-00	75	224	Yes		Jan-98
Metal Pallets										
FY 98	Unknown	C/FFP	ARDEC, Picatinny Arsenal	Aug-98	May-00	10	222	Yes		Mar-98
Lifting Plugs										
FY 98	Unknown	C/FFP	ARDEC, Picatinny Arsenal	Aug-98	May-00	77	7	Yes		Mar-98
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												PROJ ARTY 155MM SADARM M898 (E66300)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty		110	150	600	507	550	520	1450	1820	1926	42367	50000	
Gross Cost	0.0	29.8	44.9	93.6	66.4	56.5	58.3	72.6	79.6	84.4	1319.1	1905.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	29.8	44.9	93.6	66.4	56.5	58.3	72.6	79.6	84.4	1319.1	1905.2	
Initial Spares													
Total Proc Cost	0.0	29.8	44.9	93.6	66.4	56.5	58.3	72.6	79.6	84.4	1319.1	1905.2	
Flyaway U/C		0.264	0.294	0.155	0.129	0.101	0.111	0.049	0.043	0.043	0.031	0.038	
Wpn Sys Proc U/C		0.271	0.299	0.156	0.131	0.103	0.112	0.050	0.044	0.044	0.031	0.038	
<p>DESCRIPTION: The 155mm Sense and Destroy Armor (SADARM) projectile will provide an enhanced counterbattery and anti-armored vehicle capability to attack targets well beyond the Forward Line of Troops (FLOT). The SADARM projectile will function in a fire and forget mode. This indirect fire mission can be accomplished under inclement weather, degraded battlefield conditions and Nuclear, Biological, Chemical (NBC) environments, both day and night. The SADARM munitions are designed for use against self-propelled howitzers, lightly armored personnel carriers and other stationary lightly armored threat vehicles encountered in counterfire, close support, suppression of Enemy Air Defense (SEAD) and interdiction. The 155mm SADARM is delivered in the same manner as other 155mm munitions. Once dispensed from its carrier, the submunition detects targets using dual-mode millimeter wave and infrared sensors, and fires an explosively formed penetrator through the top of the target. The projectile is compatible with the momentum limits of standard and developmental 155mm howitzers including Crusader and LW155 Towed. It is ballistically similar to the cargo family of 155mm ammunition. Operational interface with other systems will be accomplished through Tactical Fire Control System (TACFIRE), Advanced Field Artillery Tactical Data System (AFATDS), and appropriate target acquisition sources. The item is Code A, approved for limited service use.</p> <p>JUSTIFICATION: The FY 1999 budget provides for production of war reserve requirements. The SADARM procurement will provide pinpoint accuracy to destroy hardened targets and will reduce consumption of artillery ammunition. SADARM will support the Howitzer M109 series, including Paladin and M198 Howitzer systems</p> <p>Type Classification Dates: Low Rate Production: January 1995 Standard: September 1998 Milestone Approval: Milestone IIIA (DAB): March 1995 Milestone III (ASARC): December 1998</p>													

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: PROJ ARTY 155MM SADARM M898 (E66300)			Weapon System Type:			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
A		AMMUNITION HARDWARE												
		Complete Round	37739	150	251593	80631	600	134385	51364	507	101310	47683	550	86696
		Metal Pallet										15	72	208
		SubTotal AMMO Hardware	37739			80631			51364			47698		
		Production Support Costs												
		Production Engineering	4279			5360			5081			4941		
		Quality Assurance	166			261			260			259		
		Acceptance Testing				1050			1745			1745		
		SubTotal Prod. Support	4445			6671			7086			6945		
		COST - Nonrecurring												
		First Article Testing	909			453								
		Value Engineering				1707								
		Live Fire Testing	65			10			1017					
		Initial Production Testing	10			3117			2007					
		Cost Reduction/Reliability Growth	1735			1000			4911			1899		
		SubTotal COST-Nonrecurring	2719			6287			7935			1899		
		TOTAL	44903		299353	93589		155982	66385		130937	56542		102804

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:							
PROCUREMENT OF AMMUNITION / 1 / Ammunition				PROJ ARTY 155MM SADARM M898 (E86300)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Fiscal Years											
Complete Round											
FY 96	Aerojet, Azusa CA	OPTION	ARDEC, Picatinny Arsenal	May-96	Mar-98	150	251593	Yes		Jul-96	
FY 97	Aerojet, Azusa CA	SS/FFP	ARDEC, Picatinny Arsenal	Feb-97	Jun-98	600	134385	Yes			
FY 98	Aerojet, Azusa CA	OPTION	ARDEC, Picatinny Arsenal	Mar-98	Jun-99	507	101310	Yes			
FY 99	Aerojet, Azusa CA	SS/FFP	ARDEC, Picatinny Arsenal	Jan-99	Jun-00	550	86696	Yes		May-98	
Metal Pallet											
FY 99	Nomura, Rock Island IL	SS/FFP	ARDEC, Picatinny Arsenal	Jan-99	Jun-99	72	208	Yes			
REMARKS:											

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										Date: February 1998	
P-1 Item Nomenclature: PROJ ARTY 155MM SADARM M898 (E66300)											
										Fiscal Year 03	
										Fiscal Year 02	
										Fiscal Year 01	
										Fiscal Year 00	
										Fiscal Year 99	
										Fiscal Year 98	
										Fiscal Year 97	
										Fiscal Year 96	
										Fiscal Year 95	
										Fiscal Year 94	
										Fiscal Year 93	
										Fiscal Year 92	
										Fiscal Year 91	
										Fiscal Year 90	
										Fiscal Year 89	
										Fiscal Year 88	
										Fiscal Year 87	
										Fiscal Year 86	
										Fiscal Year 85	
										Fiscal Year 84	
										Fiscal Year 83	
										Fiscal Year 82	
										Fiscal Year 81	
										Fiscal Year 80	
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										Fiscal Year 76	

TOTAL	
After 1 Oct	
25	
20	

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												PROJ ARTY 155MM HE M107 (E27601)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	26605					124	163	317	387	339		27935	
Gross Cost	950.7	0.0	0.0	0.0	0.0	25.7	34.1	66.9	82.6	73.4	0.0	1233.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	950.7	0.0	0.0	0.0	0.0	25.7	34.0	66.9	82.6	73.4	0.0	1233.3	
Initial Spares													
Total Proc Cost	950.7	0.0	0.0	0.0	0.0	25.7	34.0	66.9	82.6	73.4	0.0	1233.3	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
This is a multi-purpose high explosive projectile fired from 155mm howitzers. It is used for blast effect and fragmentation. The projectile may be loaded with either 14.6 pounds of TNT or 15.4 pounds of Composition B explosives. The normal cavity model will not accommodate a proximity-type fuze. The deep-cavity model has a supplementary charge of .3 pounds which may be removed to allow the use of proximity fuzes. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.													
JUSTIFICATION:													
This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training requirements and builds war reserve inventory in accordance with the Army's procurement goals.													
TYPE CLASSIFICATION DATE:													
1958													

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: PROJ ARTY 155MM HE M107 (E27601)			Weapon System Type:			Date: February 1998		
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		AMMUNITION HARDWARE												
		Load, Assemble and Pack												
		Proj M107 MPTS												
		*Proj MPTS M107												
		*Comp B Type I Grade A (LB)												
		*TNT Type I, Flake (LB)												
		Chg Suppl LAP												
		Liner, Fuze Cavity												
		Plug, Shock Attenuating												
		Grommet												
		SubTotal AMMO Hardware												
		Production Support Costs												
		Production Engineering												
		Quality Assurance												
		Acceptance Testing												
		Interim Transportation												
		Industrial Stock Support												
		SubTotal Prod. Support												
		COST - Nonrecurring												
		*Government Furnished Material												
		SubTotal COST-Nonrecurring												
		TOTAL												

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition					Weapon System Type:		Date: February 1998			
P-1 Line Item Nomenclature: PROJ ARTY 155MM HE M107 (E27801)										
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Load, Assemble and Pack FY 99	TBS	C/FP	IOC	Mar-99	Mar-00	124	79.86	Yes		Oct-98
Proj M107 MPTS ** FY 99	TBS	C/FP	IOC	Mar-99	Jan-00	101	131.43	Yes		Oct-98
*Proj MPTS M107 FY 99	Stock Issue	N/A	N/A	N/A	N/A	25	N/A	N/A		N/A
*Comp B Type I Grade A (LB) FY 99	Stock Issue	N/A	N/A	N/A	N/A	2009	N/A	N/A		N/A
*TNT Type I, Flake (LB) FY 99	Stock Issue	N/A	N/A	N/A	N/A	843	N/A	N/A		N/A
Chg Suppl LAP FY 99	Day & Zimmerman (Lone Star AAP) Texarkana, TX	SS/CPFF	IOC	Mar-99	Jan-00	126	3.92	Yes		Oct-98
Liner, Fuze Cavity FY 99	TBS	C/FP	IOC	Mar-99	Jan-00	126	0.35	Yes		Oct-98
Plug, Shock Attenuating FY 99	TBS	C/FP	IOC	Mar-99	Jan-00	126	4.94	Yes		Oct-98
Grommet FY 99	TBS	C/FP	IOC	Mar-99	Jan-00	128	1.02	Yes		Oct-98
REMARKS: *Government Furnished Material **Pacing Component TBS - To Be Selected										

[illegible]

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												FUZE ARTY ELECT TIME M767/M767A1 (E53500)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	321				62							383	
Gross Cost	41.5	0.0	0.0	0.3	14.7	0.0	0.0	0.0	0.0	0.0	0.0	56.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	41.5	0.0	0.0	0.3	14.7	0.0	0.0	0.0	0.0	0.0	0.0	56.5	
Initial Spares													
Total Proc Cost	41.5	0.0	0.0	0.3	14.7	0.0	0.0	0.0	0.0	0.0	0.0	56.5	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The M767/M767A1 Electronic Time (ET) Fuze is a boosted version of the M762 Electronic Time (ET) Fuze. The M767 ET Fuze is a second generation design that has dual setting capability: (1) Hand set without need for any external setting device and (2) An automatic set for higher rates of fire. Automatic set will support development testing of the Advanced Field Artillery System (AFAS) and be available for use by AFAS when fielded. The Fuze will be used with all existing and developmental high explosive (HE) and bursting projectiles in the 105mm, 155mm and 8-Inch artillery weapon systems and will also comply with Rationalization, Standardization and Interoperability (RSI) agreements for artillery weapon systems. The fuze utilizes a quartz crystal for its time base providing greater accuracy without increased cost. Employment of the M767 ET Fuze will result in fewer setting errors over the M582 Mechanical Time Super-Quick (MTSQ) that it replaces because of faster, easier setting methods. The M767 ET is also considerably more accurate than the MTSQ, especially over extended ranges. The M767 Materiel Change will update the electronics package and will reduce the cost associated with key manufacturing processes. Since the M767 and M762 Fuzes are produced on the same production line, the procurement of the M767 will accelerate the achievement of a unit cost reduction for the entire ET fuze family. This item is code A, approved for service use. This item has not transitioned to the SMCA and will be produced as actual cost.

JUSTIFICATION:

Procurement continues to support testing, training and war reserve requirements of the family of Improved Conventional Munitions (ICM). The M767 is will replace the Mechanical Time Fuzes which have been phased out in FY 1990.

Type Classification Date: TC STD September 1988

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: FUZE ARTY ELECT TIME M767/M767A1 (E53500)			Weapon System Type: FUZE, ARTILLERY, ELEC TIME M767/M767A1 (E61200)			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
	A	AMMUNITION HARDWARE 1. Load, Assemble, and Pack 2. Fuze Metal Parts 3. Box, Metal, M2A1							353	61500	5.74			
									7315	61500	118.94			
									52	7750	6.71			
		SubTotal AMMO Hardware							7720					
		Production Support Costs 1. ENGINEERING SUPPORT 2. QUALITY ASSURANCE 3. PROOF & ACCEPTANCE 4. INTERIM TRANSPORTATION							662					
									86					
									650					
									56					
		SubTotal Prod. Support							1454					
		COST - Nonrecurring 1. First Article Testing 2. Materiel Change 3. Replacement of Expired Year Funds							150					
									5340					
							309							
		SubTotal COST-Nonrecurring					309		5490					
		TOTAL					309		14664			236.52		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:							
PROCUREMENT OF AMMUNITION / 1 / Ammunition		FUZE, ARTILLERY, ELEC TIME M767/M767A1 (E61200)		FUZE ARTY ELECT TIME M767/M767A1 (E53500)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
1. Load, Assemble, and Pack FY 98	Martin Marietta (Milan AAP) Milan TN	SS/CPAF IOC		Mar-00	Sep-00	61500	5.74	YES	NO		
2. Fuze Metal Parts FY 98	Unknown	C/FP	TACOM-ARDEC	Mar-98	Mar-00	61500	118.94	YES	Sep 99		
3. Box, Metal, M2A1 FY 98	Unknown	C/FP	TACOM-ARDEC	Mar-98	Feb-00	7750	6.71	YES	NO		
REMARKS:											

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No.												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
P-1 Item Nomenclature:												
MINE AT M87 (VOLCANO) (E72195)												
Program Elements for Code B Items:												
Other Related Program Elements:												
Code: A												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	145	15	10	4	5							179
Gross Cost	295.8	43.9	29.2	15.0	16.6	0.0	0.0	0.0	0.0	0.0	0.0	400.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	295.8	43.9	29.2	15.0	16.6	0.0	0.0	0.0	0.0	0.0	0.0	400.5
Initial Spares												
Total Proc Cost	295.8	43.9	29.2	15.0	16.6	0.0	0.0	0.0	0.0	0.0	0.0	400.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
This canister will be loaded with six improved sensor anti-tank (AT) mines. This canister is designed for quick connect/disconnect to aid loading/unloading and is expendable after use. These mines will be deployed by the Volcano M139 Mine Dispenser to permit quick emplacement of a minefield (1000 meters by 100 meters) that will delay, disrupt and canalize enemy forces and restrict their use of critical routes or terrain. This system is critical for the United States Army to be able to conduct Full-Dimensional Operations. This item is Code A, approved for service use. This item has not transitioned to the SMCA and will be procured at actual cost.

JUSTIFICATION:
The Volcano system is a key component of the Army landmine program. This system will replace the use of hand emplaced conventional minefields, thereby reducing the exposure of personnel to hostile fire.

The date for transition to the SMCA has not been determined.

Type Classification Date - M87 Standard - January 1989
M87A1 LRIP - March 1994: Standard - September 1994

Acquisition Manager: Project Manager for Mines, Countermine and Demolitions (PM-MCD)

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: MINE AT M87 (VOLCANO) (E72195)			Weapon System Type:			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
		HARDWARE												
	A	LAP (Modified System Contract) Alliant Techsystems, Edina, MN	26887	10000	2689	12432	4240	2932						
		LAP (M87A1) Lone Star AAP, Texarkana, TX							4056	5000	811			
		MSEP Electronic Lens Alliant Techsystems, Edina, MN							9450	31500	300			
		Coil & Strap Assembly S&K Inc, Ronan, MT	867	8400	103	639	6188	103	551	5250	105			
		Metal Parts Sets JTM Inc, Amarillo TX	948	8755	108	147	1358	108	578	5250	110			
		AT S&A Assembly Action Mfg, Philadelphia, PA				1285	42000	31	995	32500	31			
		Miscellaneous	64			36			48					
		SUBTOTAL	28766			14539			15678					
		PRODUCTION SUPPORT												
		PRODUCTION ENGINEERING	250			349			720					
		QUALITY ASSURANCE	146			85			138					
		LOT ACCEPTANCE TESTING							82					
		SUBTOTAL	396			434			940					
		TOTAL	29162	10000	2916	14973	4240	3531	16618	5000	3324			

Exhibit P-5a, Budget Procurement History and Planning													
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			Weapon System Type:			P-1 Line Item Nomenclature: MINE AT M87 (VOLCANO) (E72195)					Date: February 1998		
WBS Cost Elements: Fiscal Years			Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?		RFP Issue Date
LAP (Modified System Contract) FY 96 FY 97			Alliant Techsystems, Edina., Alliant Techsystems, Edina.,		Option Option	ARDEC ARDEC		Sep-96 Feb-97	Jan-98 Jun-98	10000 4240	2689 2932	Yes Yes	
LAP (M87A1) FY 98			Day&Zimmerman (Lone Star AAP, Texarkana, TX		SS/CPIF IOC		Apr-98	Sep-99	5000	811	Yes		
MSEP Electronic Lens FY 98			Alliant Techsystems, Edina,		C/FP	ARDEC	Jul-98	May-99	31500	300	Yes		
Coil & Strap Assembly FY 96 FY 97 FY 98			S&K Electronics Inc, Ronan, S&K Electronics Inc, Ronan, S&K Electronics Inc, Ronan,		Option Option Option	ARDEC ARDEC ARDEC	May-96 Feb-97 Apr-98	Mar-97 Dec-97 Feb-99	8400 6188 5250	103 103 105	Yes Yes Yes		
Metal Parts Sets FY 96 FY 97 FY 98			JTM Inc, Amarillo, TX JTM Inc, Amarillo, TX JTM Inc, Amarillo, TX		SS/FP Option Option	ARDEC ARDEC ARDEC	Sep-96 Feb-97 Apr-98	Jun-97 Sep-97 Oct-98	8755 1358 5250	108 108 110	Yes Yes Yes		
AT S&A Assembly FY 97 FY 98			Action Mfg., Philadelphia, PA Action Mfg., Philadelphia, PA		Option Option	IOC IOC	Jan-97 Apr-98	May-97 Oct-98	42000 32500	31 31	Yes Yes		
REMARKS: The Modified System Contract includes the anti-tank electronics, bore rider pin release mechanism, third party LAP contract and third party lot acceptance testing.													

February 1998

MINE AT M87 (VOLCANO) (E72195)

February 1998

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Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998	
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										WIDE AREA MUNITIONS (E78100)		
PROCUREMENT OF AMMUNITION / 1 / Ammunition		Other Related Program Elements:												
Program Elements for Code B Items:		Code:	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty					106	70	74	80	330	310	1070	1125		3165
Gross Cost	0.0	0.0		14.6	10.0	15.0	9.6	24.5	23.7	58.4	58.0	0.0	213.7	
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	0.0	0.0	14.6	10.0	15.0	9.6	24.5	23.7	58.4	58.0	0.0	213.7		
Initial Spares														
Total Proc Cost	0.0	0.0	14.6	10.0	15.0	9.6	24.5	23.7	58.4	58.0	0.0	213.7		
Flyaway U/C														
Wpn Sys Proc U/C														

DESCRIPTION:
The M93 Wide Area Munition is a first generation smart munition. It weighs 35 pounds and can be transported by a single soldier. It has the capability to recognize armor and heavy truck targets and to autonomously aim and launch its submunition to an effective radius of 100 meters. The M93 is designed for command control of the Arm/Destruct functions. This item has not transitioned to the SMCA and will be procured at actual cost.

JUSTIFICATION:
The M93 Wide Area Munition supports high mobility/offensive operations. Its design for flexible/rapid deployment combined with cost effective logistics and a self covering minefield capability provides increased performance and lethality over current mines in inventory. The FY1999 procurement is required to build war reserve inventory in support of Department of Defense guidance. The date for transition to the SMCA has not been determined.

Type Classification Date: June 1996-Low Rate Initial Production (LRIP)
Type Classification Date: June 1998-Standard
Acquisition Manager: Project Manager for Mines, Countermine and Demolition (PM-MCD)

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: WIDE AREA MUNITIONS (E78100)				Weapon System Type:		Date: February 1998	
Ammunition Cost Elements		ID	FY 96		FY 97		FY 98		FY 99				
CD			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	TotalCost	UnitCost	
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$000	\$	
AMMUNITION HARDWARE													
1. Load, Assemble, and Pack -Wide Area Munition-Complete													
SUBTOTAL													
Production Support Costs													
Production Engineering													
Quality Assurance													
OGA Support													
SUBTOTAL													
COST - Nonrecurring													
Producability EP													
Production Qualification Test													
Contractor Eng Support													
SUBTOTAL													
TOTAL													

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:										February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition										
Weapon System Type:										
P-1 Line Item Nomenclature:										
WIDE AREA MUNITIONS (E78100)										
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. LAP -Wide Area Munition - Complete										
FY 96	Textron Defense Systems Wilmington, MA	SS/FPIF	Picatinny Arsenal, NJ	Jun-96	Mar-99	106	133708	Yes		
FY 97	Textron Defense Systems Wilmington, MA	Option	Picatinny Arsenal, NJ	Jul-97	Aug-99	70	127600	Yes		
FY98	Textron Defense Systems Wilmington, MA	Option	Picatinny Arsenal, NJ	Dec-97	Jan-00	74	118054	Yes		
FY99	Textron Defense Systems Wilmington, MA	Option	Picatinny Arsenal, NJ	Nov-98	Dec-00	80	114338	Yes		
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1988
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												BUNKER DEFEATING MUNITION (BDM) (E88400)	
Program Elements for Code B Items:												Code:	
Other Related Program Elements:													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	7.0	14.6	10.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	39.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	7.0	14.6	10.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	39.4	
Initial Spares													
Total Proc Cost	0.0	7.0	14.6	10.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	39.4	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
This budget line includes Bunker Defeating Munition All Types													

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												BUNKER DEFEATING MUNITION (TACTICAL) (E88401)	
Program Elements for Code B Items:												Other Related Program Elements:	
64802													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty		1012	2215	1242	966							5435	
Gross Cost	0.0	7.0	14.6	10.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	39.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	7.0	14.6	10.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	39.4	
Initial Spares													
Total Proc Cost	0.0	7.0	14.6	10.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	39.4	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The Bunker Defeat Munition Shoulder-Launched Multi-purpose Assault Weapon - Disposable (SMAW-D) is a stand-alone, single shot, disposable munition which is used to defeat earth and timber field fortifications (bunkers). It also defeats light armored vehicles and breaches masonry walls. The need for the BDM SMAW-D was identified during operations Urgent Fury, Just Cause and Desert Shield/Storm. Other systems available (M136, AT4 and the M72, LAW) are ineffective against bunkers. The BDM is light-weight (15.7 lbs.), man-portable and air deployable. The BDM will be used by contingency forces. This item is Code B, PE 64802, not approved for service use. This item has not transitioned to the SMCA and will be procured as actual cost.

JUSTIFICATION:

Procurement supports contingency forces only.

Type Classified (TC) Generic August 1993 & TC LP September 1994

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: BUNKER DEFEATING MUNITION (TACTICAL) (E88401)			Weapon System Type: Bunker Defeating Munition			Date: February 1998		
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE														
1. COMPLETE ROUND	B		12860	2215	5805.87	8203	1242	6604.67	6380	966	6604.56			
2. FIELD HANDLING SYSTEM			200	133	1503.76	198	54	3666.67	154	42	3666.67			
SubTotal AMMO Hardware			13060			8401			6534					
Production Support Costs														
1. Production Engineering			852			927			667					
2. Quality Assurance			171			171			137					
3. Acceptance Testing			448			448			448					
4. Interim Transportation			50			35			35					
SubTotal Prod. Support			1521			1581			1287					
TOTAL			14581		6582.84	9982		8037.04	7821		8097.31			

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:										February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition										
Weapon System Type:										
P-1 Line Item Nomenclature:										
BUNKER DEFEATING MUNITION (TACTICAL) (E88401)										
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years						Each				
1. COMPLETE ROUND										
FY 96	TALLEY, MESA, AZ	SS/FP	TACOM-ARDEC	Sep-96	Nov-98	2215	5805.87			
FY 97	TALLEY, MESA, AZ	SS/FP	TACOM-ARDEC	Aug-97	Dec-99	1242	6604.67			
FY 98	TALLEY, MESA, AZ	Option	TACOM-ARDEC	Feb-98	Dec-00	966	6604.56	Yes	No	
2. FIELD HANDLING SYSTEM										
FY 96	TALLEY, MESA, AZ	SS/FP	TACOM-ARDEC	Sep-96	Nov-98	133	1503.76			
FY 97	TALLEY, MESA, AZ	SS/FP	TACOM-ARDEC	Aug-97	Dec-99	54	3666.67			
FY 98	TALLEY, MESA, AZ	Option	TACOM-ARDEC	Feb-98	Dec-00	42	3666.67	Yes	No	
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												ROCKET, HYDRA 70, ALL TYPES (E37300)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	648.6	107.8	27.0	27.3	36.4	126.1	120.2	118.6	119.6	121.4	0.0	1453.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	648.6	107.8	27.0	27.3	36.4	126.1	120.2	118.6	119.6	121.4	0.0	1453.0	
Initial Spares													
Total Proc Cost	648.6	107.8	27.0	27.3	36.4	126.1	120.2	118.6	119.6	121.4	0.0	1453.0	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

This budget line includes Rocket Hydra 70 ALL TYPES.

Exhibit P-5, Weapon Ammo Cost Analysis

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: ROCKET, HYDRA 70, ALL TYPES (E37300)				Weapon System Type:		Date: February 1998	
Ammunition Cost Elements				FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	UnitCost	
ROCKET HYDRA 70 MPSPM HE M261 WHD					16481	7	2384.38								
ROCKET HYDRA 70 HE/RS M151/M433															
ROCKET HYDRA 70 SMOKE M264		5648	3	1602.84	10771	7	1602.84								
ROCKET HYDRA 70 MPSPM PRAC M267															
ROCKET HYDRA 70 HE/PD M151/M423		21358	46	468.86											
ROCKET HYDRA 70 SIG PRAC M274															
										</					

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity / Serial No.												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
Program Elements for Code B Items:												ROCKET HYDRA 70 MPSM HE M261 WHD (E37327)
Other Related Program Elements:												
Code: A												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	89			7								96
Gross Cost	81.5	0.0	0.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	81.5	0.0	0.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.0
Initial Spares												
Total Proc Cost	81.5	0.0	0.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The HYDRA 70 Weapon System is a family of aerial rockets used by Army aircraft (APACHE, KIOWA WARRIOR, and COBRA) against area targets such as personnel, air defense systems, and materiel. The M261 Multipurpose Submunition (MPSM) warhead consists of a plastic nose cone assembly, an aluminum warhead case, an expulsion charge, and nine full caliber M73 submunitions with an M439 remote settable fuze. Each submunition has a copper shaped charge liner for armor penetration. The submunitions contain a ram air decelerator (RAD) stabilizing device and 0.2 pounds of Comp B-4 high explosive with the body wall scored internally to optimize fragment size against personnel and materiel. The M439 fuze is remotely set from the aircraft with time to target data. After firing, the fuze functions at the computer determined time to initiate the expulsion charge. Once the submunitions are ejected, the RAD's inflate and the arming sequence starts as the submunitions enter into a near vertical descent over the target area. Each submunition is fuzed with an M230 fuze which will function regardless of impact angle. M261 is mated to the MK66 Mod 3 rocket motor and is fired from either the M260 or M261 Light Weight Launcher. This item is Code A; approved for service use.

JUSTIFICATION:

This is a war reserve item; used only in combat. Procurement builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1985

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: ROCKET HYDRA 70 MPSM HE M261 WHD (E37327)				Weapon System Type:		Date: February 1998	
Ammunition Cost Elements			FY 96		FY 97		FY 98		FY 99		FY 98		FY 99	
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
		AMMUNITION HARDWARE Load, Assemble, and Pack MK90 Prop Grain				12152 1260	6912 7396	1758.17 170.37						
		SubTotal AMMO Hardware				13412								
		Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge				613 19 146 127 531 1633								
		SubTotal Prod. Support				3069								
		TOTAL				16481								

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
PROCUREMENT OF AMMUNITION / 1 / Ammunition		ROCKET HYDRA 70 MPSM HE M261 WHD (E37327)								
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Load, Assemble, and Pack FY 97	Lockheed Martin Burlington, VT	C/FP	IOC	Dec-96	Nov-98	6912	1758.17	Yes		Oct-96
MK90 Prop Grain FY 97	Alliant Tech Sys (Radford AAP) Radford, VA	SS/CPAF	IOC	Sep-97	Oct-98	7396	170.37	Yes		Jul-97
REMARKS: Lockheed-Martin Ordnance System was purchased by General Dynamics Ordnance Systems in Jan 97. FY97 program awarded as a performance specification requirement contract.										

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date: February 1998										
PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Item Nomenclature: ROCKET HYDRA 70 SMOKE M264 (E37330)										
Program Elements for Code B Items:		Other Related Program Elements:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	2		3	7								12
Gross Cost	2.1	0.7	5.6	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2.1	0.7	5.6	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2
Initial Spares												
Total Proc Cost	2.1	0.7	5.6	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The HYDRA 70 Weapon System is a family of aerial rockets used by Army aircraft (APACHE, KIOWA WARRIOR, and COBRA) against area targets such as personnel, air defense systems, and materiel. The systems smoke rocket consists of the M264 red phosphorus (RP) warhead and the MK66 Mod 3 rocket motor. The warhead consists of a plastic nose cone assembly, an aluminum warhead case, a remote settable primary fuze (M439) with an umbilical cable, an expulsion charge, and 72 RP wedges. The M264 warhead uses RP because of its stability and improved performance as a screening agent in hot temperature conditions. The M264 is designed to provide longer stand-off range and integration with the M439 range settable fuze. The M439 fuze permits the firing aircraft to remain in defilade and place smoke at ranges up to 6 kilometers. The M264 replaces a similar rocket that consists of a M259 white phosphorus warhead and a MK40 rocket motor. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training standard item used in both training and combat. Procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:
July 1995

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: ROCKET HYDRA 70 SMOKE M264 (E37330)				Weapon System Type:		Date: February 1998		
Ammunition Cost Elements		ID	FY 96		FY 97		FY 98		FY 99					
CD			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE														
Load, Assemble and Pack			3825	3312	1154.90	7761	6720	1154.90						
MK90 Prop Grain			673	3544	189.96	1366	7191	189.96						
SubTotal AMMO Hardware			4498			9127								
Production Support Costs														
Production Engineering			186			378								
Quality Assurance			6			13								
Acceptance Testing			49			99								
Interim Transportation			43			87								
Industrial Stock Support			1											
CAWCF Gain/Loss Surcharge			526			1067								
SubTotal Prod. Support			811			1644								
COST - Nonrecurring														
ECP			339											
SubTotal COST - Nonrecurring			339											
TOTAL			5648		1602.84	10771		1602.84						1602.84

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
PROCUREMENT OF AMMUNITION / 1 / Ammunition				ROCKET HYDRA 70 SMOKE M264 (E37330)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Load, Assemble and Pack FY 96	Lockheed Martin Burlington, VT	C/FP	IOC	Dec-96	Nov-98	3312	1154.90			
FY 97	Lockheed Martin Burlington, VT	C/FP	IOC	Dec-96	Dec-98	6720	1154.90	Yes		Sep-96
MK90 Prop Grain FY 96	Alliant Tech Sys (Radford AAP) Radford, VA	SS/CPAF	IOC	Mar-96	Nov-97	3544	189.96			
FY 97	Alliant Tech Sys (Radford AAP) Radford, VA	SS/CPAF	IOC	Sep-97	Nov-98	7191	189.96	Yes		Jun-97
REMARKS: Lockheed-Martin Ordnance Systems was purchased by General Dynamics Ordnance System in Jan 97. FY 96 and FY 97 program awarded as a performance specification requirement contract.										

Exhibit P-40, Budget Item Justification Sheet										Date:		
Appropriation / Budget Activity/Serial No.										February 1998		
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
P-1 Item Nomenclature:										ROCKET HYDRA 70 MP5M PRAC M267 (E37334)		
Program Elements for Code B Items:												
Code:												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	208	42				46	44	37	37	37		451
Gross Cost	141.4	31.4	0.0	0.0	0.0	38.1	36.2	32.1	32.0	32.5	0.0	343.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	141.4	31.4	0.0	0.0	0.0	38.1	36.2	32.1	32.0	32.5	0.0	343.7
Initial Spares												
Total Proc Cost	141.4	31.4	0.0	0.0	0.0	38.1	36.2	32.1	32.0	32.5	0.0	343.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The HYDRA 70 Weapon System is a family of aerial rockets used by Army aircraft (APACHE, KIOWA WARRIOR, and COBRA) against area targets such as personnel, air defense systems, and materiel. The M267 Multi-Purpose Submunition (MPSM) practice round is identical in operation to the M261 tactical warhead except that three M75 practice submunitions, with a flash powder smoke signature, take the place of the nine M73 submunitions. Six inert submunitions are used to complete the weight and balance requirements. The M267 uses the M439 remote fuze, is mated to the MK66 Mod 3 rocket motor with electromagnetic radiation protection, and is required to train with the fire control and rocket management systems on the COBRA and APACHE attack helicopters. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. The M267 MPSM Practice round provides a cleaner, more effective rocket with which to train pilots.

TYPE CLASSIFICATION DATE:

1982

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: ROCKET HYDRA 70 MPSM PRAC M267 (E37334)			Weapon System Type:			Date: February 1998		
ID CD	Ammunition Cost Elements		FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
	AMMUNITION HARDWARE Complete Round											35948	46000	781.48
	SubTotal AMMO Hardware											35948		
	Production Support Costs Production Engineering Quality Assurance											170 69		
	SubTotal Prod. Support											239		
	COST - Nonrecurring Material Change											1890		
	SubTotal COST-Nonrecurring											1890		
	TOTAL											38077		827.76

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
PROCUREMENT OF AMMUNITION / 1 / Ammunition		ROCKET HYDRA 70 MPSM PRAC M267 (E37334)								
WBS Cost Elements: Fiscal Years		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost, \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Complete Round FY 95		Lockheed Martin Burlington, VT TBS	IOC	Nov-95	Feb-98	42319	404.87			
FY 99***			IOC	Apr-99	Feb-01	46000	781.48	Yes		Oct-98
MK90 Prop Grain FY 95		Alliant Tech Sys (Radford AAP) Plant Procured	IOC	Dec-94	Jan-96	45282	183.37			
FY 99			N/A	N/A	N/A	N/A	N/A	N/A		N/A
REMARKS: TBS - To Be Selected ***Complete Round Lockheed-Martin Ordnance Systems was purchased by General Dynamics Ordnance Systems in Jan 97.										

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity / Serial No:						Date: February 1998						
PROCUREMENT OF AMMUNITION / 1 / Ammunition						P-1 Item Nomenclature: ROCKET HYDRA 70 HE/DP M151/M423 (E37335)						
Program Elements for Code B Items:						Other Related Program Elements:						
		Code:		A								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	211				14	17	24	26	25	25		342
Gross Cost	61.3	0.0	0.0	0.0	11.2	12.1	17.7	19.1	19.0	19.4	0.0	159.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	61.3	0.0	0.0	0.0	11.2	12.1	17.7	19.1	19.0	19.4	0.0	159.8
Initial Spares												
Total Proc Cost	61.3	0.0	0.0	0.0	11.2	12.1	17.7	19.1	19.0	19.4	0.0	159.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The HYDRA-70 Weapon System is a family of aerial rockets used by Army Aircraft (APACHE, KIOWA WARRIOR, and COBRA) against area targets such as personnel, air defense systems, and materiel. The M151 HEPD is a unitary fragmenting 10 lb anti-personnel warhead with the M423 Point Detonating Fuze. The warhead consists of two main parts, the nose and the base, which is fabricated using nodular pearlitic malleable or ferritic malleable cast iron. The nose end of the warhead is threaded to receive the M423 fuze and is loaded with 2.3 lbs of Composition B4 explosive. The base section is fabricated from steel or cast iron and is threaded for attachment to the MK66 rocket motor. Upon detonation, the warhead fragments into thousands of small, high velocity fragments. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a war reserve item; used only in combat. The FY 99 procurement builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

26 February 1982

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: ROCKET HYDRA 70 HE/PD M151/M423 (E37335)			Weapon System Type:			Date: February 1988		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE														
Load, Assemble and Pack														
MK90 Prop Grain														
SubTotal AMMO Hardware														
Production Support Costs														
Production Engineering														
Quality Assurance														
Acceptance Testing														
Interim Transportation														
Industrial Stock Support														
CAWCF Gain/Loss Surcharge														
SubTotal Prod. Support														
TOTAL														

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
PROCUREMENT OF AMMUNITION / 1 / Ammunition		ROCKET HYDRA 70 HE/PG M151/M423 (E37335)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Load, Assemble and Pack	TBS	C/FP	IOC	Apr-98	Feb-00	14336	468.04	Yes		Oct-97
FY 98	TBS	C/FP	IOC	Apr-99	Feb-01	17000	696.31	Yes		Oct-98
FY 99***										
MK90 Prop Grain	TBS	C/FP	IOC	Mar-98	Aug-99	15340	194.38	Yes		Oct-97
FY 98	Plant Procured	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
FY 99										
REMARKS: TBS - To Be Selected ***Complete Round										

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No.		Date: February 1998										
PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Item Nomenclature: ROCKET HYDRA 70 SIG PRAC M274 (E37337)										
Program Elements for Code B Items:		Other Related Program Elements:										
		Code: A										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	937	172	46		45	154	136	136	136	136		1898
Gross Cost	295.6	75.7	21.4	0.0	25.2	75.9	66.2	67.4	68.6	69.5	0.0	765.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	295.6	75.7	21.4	0.0	25.2	75.9	66.2	67.4	68.6	69.5	0.0	765.5
Initial Spares												
Total Proc Cost	295.6	75.7	21.4	0.0	25.2	75.9	66.2	67.4	68.6	69.5	0.0	765.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The HYDRA 70 Weapon System is a family of aerial rockets used by Army aircraft (APACHE, KIOWA WARRIOR, and COBRA) against area targets such as personnel, air defense systems, and materiel. The M274 warhead is a smoke/flash signature practice warhead used for pilot/gunner training missions and consists of a cast iron warhead modified with vent holes; and an aluminum nose cap with firing pin, an M423 fuze safe and arming device; and a smoke/flash cartridge containing a mixture of potassium perchlorate and aluminum powder. The M274 with the new MK66 Mod 3 rocket motor with electromagnetic radiation protection can be fired by all aircraft. It is a key rocket due to its low cost, simple and reliable operation, day and night signature for scoring pilot proficiency, and non-hazardous dud feature which enables usage on new multipurpose range complexes. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. Each pilot must fire live rockets to acquire and maintain attack helicopter gunnery skills. FY 99 procurement supports all training schedules, initial qualification training for aviators, and builds a depot level in accordance with the Army's procurement goals. The M274 Signature Practice Rocket is the preferred training munition at all ranges. The M274 Signature Practice Rocket is safer to use, is cheaper, and has less of an environmental impact than high explosive rockets. At the same time, it allows peacetime training with rockets compatible with the new sterile, instrumented training ranges equipped with advanced sensors.

TYPE CLASSIFICATION DATE:
1986

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: ROCKET HYDRA 70 SIG PRAC M274 (E37337)			Weapon System Type:			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		AMMUNITION HARDWARE												
		Load, Assemble and Pack	8394	46	184.27				9745	45	214.65			
		MK90 Prop Grain	8383	49	172.00				12220	49	251.56			
		Complete Round										71916	154	466.99
		SubTotal AMMO Hardware	16777						21965			71916		
		Production Support Costs												
		Production Engineering	520						2245			3631		
		Quality Assurance	23						55			74		
		Acceptance Testing	193											
		Interim Transportation	64						158					
		Industrial Stock Support	714						777					
		CAWCF Gain/Loss Surcharge	3067											
		SubTotal Prod. Support	4581						3235			3705		
		COST - Nonrecurring												
		Material Change										300		
		SubTotal COST-Nonrecurring										300		
		TOTAL	21358		468.86				25200		555.09	75921		492.99

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:		P-1 Line Item Nomenclature: ROCKET HYDRA 70 SIG PRAC M274 (E37337)						
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Load, Assemble and Pack FY 96		Lockheed Martin Burlington, VT		C/FP	IOC	Dec-96	Oct-98	45552	184.27			
FY 98		TBS		C/FP	IOC	Apr-98	Feb-00	45398	214.65	Yes		Oct-97
FY 99***		TBS		C/FP	IOC	Apr-99	Feb-01	154000	466.99	Yes		Oct-98
MK90 Prop Grain FY 96		Alliant Tech Sys (Radford AAP) Radford, VA		SS/CPAF	IOC	Nov-96	Apr-97	48741	172.00			
FY 98		TBS		C/FP	IOC	Feb-98	Dec-99	48576	251.56	Yes		Oct-97
FY 99		Plant Procured		N/A		N/A	N/A	N/A	N/A			N/A
REMARKS: TBS - To Be Selected ***Complete Round												

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
P-1 Item Nomenclature:												
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
DEMOLITION MUNITIONS, ALL TYPES (E55400)												
Program Elements for Code B Items:												
Code:												
Other Related Program Elements:												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	% Complete	Total Prog	
Proc Qty												
Gross Cost	241.1	30.2	16.4	18.3	8.8	13.5	19.0	24.5	25.1	0.0	436.6	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	241.1	30.2	16.4	18.3	8.8	13.5	19.0	24.5	25.1	0.0	436.6	
Initial Spares												
Total Proc Cost	241.1	30.2	16.4	18.3	8.8	13.5	19.0	24.5	25.1	0.0	436.6	
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												
This budget line includes Demolition Munitions ALL TYPES.												

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: DEMOLITION MUNITIONS, ALL TYPES (E55400)		Weapon System Type:		Date:
		FY 96		FY		FY 98		FY 99
ID	Ammunition Cost Elements	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost
		\$000	x1000	\$	\$000	x1000	\$	\$000
	SELECTIVE LTWT ATTACK MUNITI	11302	619	18.26	8774	9	968.00	
	CHG DEMO BLK COMP C-4 1-1/4 LB	852	4260	0.20				
	CORD DETONATING TYPE 1	614	76	8.08	2662	303	1.79	
	CHARGE DEMO SHAPED	2975	912	3.26				
	CAP BLASTING NON-ELEC,	1101	54	20.39	1712	122	14.03	
	CAP BLASTING NON-ELEC,	498	15	33.20	503	16	31.44	
	CAP BLASTING NON-ELEC,	1496	175	8.55	1542	168	9.76	
	FUSE BLASTING TIME M700							
	IGNITER, TIME FUZE AND	981	288	3.41	1032	277	3.73	
	CUTTER CTG ACTUATED 2SEC	13	1	13.00				
	CAP, BLASTING INERT NON-	93	10	9.30	102	11	9.27	
	CAP, BLASTING INERT NON-ELECT	57	4	14.25	49	7	7.00	
	CAP BLASTING NON-ELECTRIC 10 FT SHOCK							
	TUBE XM15							
	CAP BLASTING NON-ELECTRIC							
	SHOCK TUBE XM17							
	CAP BLASTING NON-ELECTRIC							
	DELAY XM18							
	CHG DEMO BLK CENTERING 40	5939	16	379.76				
	CHG DEMO SHAPED M3 40 LB	2546	10	242.85				
	IGNITER FUSE BLASTING TIME	406	115	3.53				
	HOLDER FOR BLASTING CAP	713	1637	0.44				
	CAP BLASTING INERT NON-							
	W/30 F	353	71	4.97				
	CAP BLASTING NON-ELEC							
	W/70 FT	285	36	7.92				
	TOTAL	30224			16376			8800

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity / Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
P-1 Item Nomenclature:												
SELECTIVE LTWT ATTACK MUNITION (SOF) (E52000)												
Program Elements for Code B Items:												
Code:												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	% Complete	Total Prog
Proc Qty				9					5	9		23
Gross Cost	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0	9.5	9.4	0.0	27.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0	9.5	9.4	0.0	27.7
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0	9.5	9.4	0.0	27.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The Army SLAM is a lightweight (2.2lbs), compact hand emplaced munition offering the user multiple modes of operation. The Warhead is an explosively formed penetrator (EFP) to provide a capability to engage and defeat targets from 5 inches to 25 ft. It's 4 modes are bottom attack (magnetic signature), side/top attack (infrared signature), timed demolition and operator-initiated command detonation.

JUSTIFICATION:
The Army SLAM program is a modified NDI. The SLAM was developed for US SOCOM. This device will be modified by including a self-destruct feature in all electronic modes of operation. The FY97 procurement quantity supports the Army War Reserve Requirement.

Type Classification Date: September 1996
Acquisition Manager: Project Manager, Mines Countermine and Demolitions (PM-MCD)

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: SELECTIVE LTWT ATTACK MUNITION (SOF) (E52000)				Weapon System Type:		Date: February 1998	
ID	CD	FY 96				FY 98				FY 99			
		TotalCost	Qty	UnitCost		TotalCost	Qty	UnitCost		TotalCost	Qty	UnitCost	
Ammunition Cost Elements		\$000	Each	\$		\$000	Each	\$		\$000	Each	\$	
AMMUNITION HARDWARE													
1. Load, Assemble, and Pack- Sele						7175	9064		792				
Attack Munition M4 - Complete													
2. Trainer Kits (M299)						503	285		1765				
SubTotal AMMO Hardware						7678							
Production Support Costs													
1. Production Engineering						573							
2. Quality Assurance						270							
3. Acceptance Testing						253							
SubTotal Prod. Support						1096							
TOTAL						8774	9064		968				

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type:		P-1 Line Item Nomenclature: SELECTIVE LTWT ATTACK MUNITION (SOF) (E52000)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revis Avail	Issue
LAP- Selectable Ltwt Attack Munition M4 FY 97	Alliant Tech Systems, MN	C/FP	Picatinny Arsenal, NJ	Jul-97	Sep-98	9064	792	Yes		
Trainer Kits (M299) FY 97	Alliant Tech Systems, MN	C/FP	Picatinny Arsenal, NJ	Jul-97	Jul-98	285	1765	Yes		
REMARK Contract Awarded for both Special Operations Forces (SOF) and U.S. Army Requirements. U.S. Army Delivery										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No.												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
P-1 Item Nomenclature:												CHG DEMO BLK COMP C-4 1-1/4 LB M112 (E50601)
Program Elements for Code B Items:												
Code:												Other Related Program Elements:
A												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	% Completed	Total Prog
Proc Qty	4634	2132	619		345							7730
Gross Cost	21.5	21.9	11.3	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	67.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	21.5	21.9	11.3	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	67.7
Initial Spares												
Total Proc Cost	21.5	21.9	11.3	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	67.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The block demolition charge consists of 1-1/4 pounds of composition C4 plastic explosive packed in a mylar-film bag. Pressure sensitive adhesive tape is provided on one of the rectangular surfaces, allowing quick emplacement by the individual soldier on the object to be destroyed. The explosive may be cut and/or removed from its wrapper and hand molded into a desired shape suited to the target. Upon detonation, the shock wave destroys the target by cutting, breaching or cratering. This item is Code A, approved for service use.

JUSTIFICATION:

Composition C4 is the primary demolition explosive used by the U.S. Army. This is a training standard item used in both training and combat. Procurement supports annual peacetime training, demilitarization requirements, and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Prior to 1960.

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CHG DEMO BLK COMP C-4 1- 1/4 LB M112 (E50601)			Weapon System Type:			Date: February 1998		
Ammunition Cost Elements			FY 96			FY			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE														
		Load, Assemble and Pack	2242	619	3.62				1362	345	3.95			
		Comp C-4 Class 3	6637	786	8.44				9831	438	22.44			
SubTotal AMMO Hardware			8879						11193					
Production Support Costs														
		Production Engineering	275						1144					
		Quality Assurance	12						28					
		Acceptance Testing	102						129					
		Interim Transportation	34						81					
		Industrial Stock Support	377						396					
		CAWCF Gain/Loss Surcharge	1623											
SubTotal Prod. Support			2423						1778					
TOTAL			11302		18.26				12971		37.60			

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type:		P-1 Line Item Nomenclature: CHG DEMO BLK COMP C-4 1-1/4 LB M112 (E50601)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revis Issue
Fiscal Years									
Load, Assemble and Pack FY 96	Martin Marietta (MAAP) Milan, TN	C/FP	IOC	Aug-96	Feb-97	619040	3.62	Yes	
FY 98	Martin Marietta (MAAP) Milan, TN	C/FP	IOC	Feb-98	Dec-98	344955	3.95	Yes	Oct-97
Comp C-4 Class 3 FY 96	Holston Defense (HAAP) Kingsport, TN	S/CPF	IOC	Aug-96	Jan-97	786181	8.44	Yes	
FY 98	Holston Defense (HAAP) Kingsport, TN	S/CPF	IOC	Feb-98	Oct-98	438093	22.44	Yes	Oct-97
REMARK									

Exhibit P-40, Budget Item Justification Sheet											
Appropriation / Budget Activity / Serial No:										Date: February 1998	
PROCUREMENT OF AMMUNITION / 1 / Ammunition										P-1 Item Nomenclature:	
Program Elements for Code B Items:										CORD DETONATING TYPE 1 (E54100)	
Code: A										Other Related Program Elements:	
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	% Complete	Total Prog
Proc Qty	192290	4260		14922	3004						214476
Gross Cost	10.5	0.9	0.0	1.6	0.3	0.0	0.0	0.0	0.0	0.0	13.3
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	10.5	0.9	0.0	1.6	0.3	0.0	0.0	0.0	0.0	0.0	13.3
Initial Spares											
Total Proc Cost	10.5	0.9	0.0	1.6	0.3	0.0	0.0	0.0	0.0	0.0	13.3
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION:

The detonating cord, Type 1, Class E, is the only standard cord used by the Army. It consists of a core of high velocity explosive in a seamless textile tube. The tube is covered with a thin layer of asphalt and sheathed in an outer cover of plastic coated textile. It has a detonating velocity of not less than 21,000 to 23,000 feet per second. This detonating cord may be used for detonating single or multiple demolition charges. Detonating cord may be initiated by a detonating cord initiator, or electric or non-electric blasting cap. This detonating cord is packed 3/1,000 ft spools per wooden box. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training, demilitarization requirements, and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CORD DETONATING TYPE 1 (ES4100)			Weapon System Type:			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		AMMUNITION HARDWARE												
		Complete Round	677	4260	0.16				1394	14922	0.09	294	3004	0.10
		Load, Assemble and Pack (FT)										17	1	25.78
		Cap Blasting Elec M6												
		SubTotal AMMO Hardware	677						1394			311		
		Production Support Costs												
		Production Engineering							142			17		
		Quality Assurance	1						3			1		
		Acceptance Testing	8						16			4		
		Interim Transportation	3						10					
		Industrial Stock Support	29						50			6		
		CAWCF Gain/Loss Surcharge	134											
		SubTotal Prod. Support	175						221			28		
		TOTAL	852		0.20				1615		0.11	339		0.11

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
P-1 Item Nomenclature:												
CAP BLASTING NON-ELEC, W/30 FT SHOCK TUB (E81302)												
Program Elements for Code B Items:												
Code:												
Other Related Program Elements:												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	% Completed	Total Prog	
Proc Qty	110	30	912		304	204	204	204	204		2172	
Gross Cost	0.7	0.4	3.0	0.0	1.2	0.8	0.8	0.9	0.9	0.0	8.7	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.7	0.4	3.0	0.0	1.2	0.8	0.8	0.9	0.9	0.0	8.7	
Initial Spares												
Total Proc Cost	0.7	0.4	3.0	0.0	1.2	0.8	0.8	0.9	0.9	0.0	8.7	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
A nondelay military sized blasting cap which is factory crimped to 30ft. of shock tube. This component will be used to branch firing signals to and initiate explosive and demolition devices. This item has not transitioned to the SMCA and will be procured at actual cost.

JUSTIFICATION:
MDI is a set of components which non-electrically initiates explosives using "shock tube" technology which has been in commercial use for twenty years. The new components are lighter, more reliable and easier to use. In addition, because of a highly competitive commercial market, MDI will be lower in cost than the present components such as M6 and M7 blasting caps, det cord, etc.

Type Classification Date: September 1993-Generic
Type Classification Date: April 1996 - Standard
Acquisition Manager: Project Manager, Mines Countermine and Demolitions (PM-MCD)

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CAP BLASTING NON-ELEC, W/30 FT SHOCK TUB (E81302)				Weapon System Type:		Date: February 1998		
Ammunition Cost Elements		ID	FY 96		FY		FY 98		FY 99					
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
HARDWARE														
1. Cap, Blasting: Non-electric, with 30ft. shock tube, M11			2975	912	3.26							1094	304	3.60
SUBTOTAL			2975									1094		
PRODUCTION SUPPORT														
1. PRODUCTION ENGINEERING												72		
2. QUALITY ASSURANCE												36		
3. ACCEPTANCE TESTING												24		
SUBTOTAL												132		
TOTAL			2975	912	3.26							1226	304	4.03

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type:		P-1 Line Item Nomenclature: CAP BLASTING NON-ELEC. W/30 FT SHOCK TUB (E81302)						February 1998
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	Rev Issue
Cap, Blasting: Non-elec, w/30ft Shock Tube, M11	ICI Explosives, Canada	Option	ARDEC	Mar-96	Feb-97	300	3.10	Yes		
FY 96	Ensign Bickford, CT	C/FP	ARDEC	Sep-96	Oct-97	612	3.34	Yes		
FY 96	TBS	C/FP	ARDEC	Mar-99	Oct-99	304	3.60	Yes		
FY 99										
REMARK FY96 PROCUREMENT CONSISTS OF EXERCISE OF MAXIMUM OPTION FOR 300,000 AND NEW PROCUREMENT FOR THE BALANCE OF 612,000										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
PROCUREMENT OF AMMUNITION /Ammunition / 41472790												P-1 Item Nomenclature:
Program Elements for Code B Items:												Cap Blasting, Non-Electric, 20 Minute Delay (E81314)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	% Complete	Total Prog	
Proc Qty					156	114	114	114	114		612	
Gross Cost	0.0	0.0	0.0	0.0	2.2	1.6	1.6	1.6	1.6	0.0	8.5	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	2.2	1.6	1.6	1.6	1.6	0.0	8.5	
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	2.2	1.6	1.6	1.6	1.6	0.0	8.5	
Flyaway U/C												
Wpn Sys Proc U/C												
<p>DESCRIPTION:</p> <p>A nondelay military sized blasting cap which is factory crimped to 30 ft of time fuse. This component will be used to branch firing signals to and initiate explosive and demolition devices. This item has not transitioned to the SMCA and will be procured at actual cost.</p> <p>JUSTIFICATION:</p> <p>MDI is a set of components which non-electrically initiates explosives using "shock tube" technology which has been in commercial use for twenty years. The new components are lighter, more reliable and easier to use. In addition, because of a highly competitive commercial market, MDI will be lower in cost than the present components such as M6 and M7 blasting caps, det cord, etc.</p>												
Type Classification Date: February 1998 -Standard												

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION /Ammunition /				P-1 Line Item Nomenclature: Cap Blasting, Non-Electric, 20 Minute Delay (E81314)				Weapon System Type:				Date: February 1998		
Ammunition Cost Elements		ID	FY 96				FY				FY 98				FY 99			
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	
HARDWARE																		
1. Cap Blasting: Non-electric, 30 min delay																		
SUBTOTAL															1716	156	11.00	
PRODUCTION SUPPORT															1716			
1. PRODUCTION ENGINEERING															225			
2. QUALITY ASSURANCE															65			
3. ACCEPTANCE TESTING															180			
SUBTOTAL															245			
TOTAL															2186	156	14.01	

Exhibit P-5a, Budget Procurement History and Planning										Date:											
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:																	
PROCUREMENT OF AMMUNITION /Ammunition /				Cap Blasting, Non-Electric, 20 Minute Delay (E81314)																	
WBS Cost Elements:		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY		Unit Cost		Specs Avail Now?		Date Revisn Avail		Issue	
Fiscal Years																					
1. Cap Blasting: Non-elec, 30 min delay, XM18		TBS		C/FP		ARDEC		Mar-99		Oct-99		156		11.00		No				Oct-98	
FY 99																					
REMARK																					

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												GRENADES, ALL TYPES (E34000)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	539.0	5.0	23.9	4.2	14.3	21.4	20.6	21.7	22.0	24.4	0.0	696.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	539.0	5.0	23.9	4.2	14.3	21.4	20.6	21.7	22.0	24.4	0.0	696.5	
Initial Spares													
Total Proc Cost	539.0	5.0	23.9	4.2	14.3	21.4	20.6	21.7	22.0	24.4	0.0	696.5	
Fiyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
This budget line includes Grenades ALL TYPES.													

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: GRENADES, ALL TYPES (E34000)			Weapon System Type:		Date: February 1998			
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		FUZE GRENADE HAND PRAC M228	10491	3330	3.15							1931	808	2.20
		GRENADE HAND SMOKE YELLOW M18	1290	40	32.20				2401	75	31.89	4340	130	33.27
		GRENADE HAND SMOKE VIOLET M18	570						1346	42	31.90	2764	73	37.61
		GRENADE HAND SMOKE TNG M83	11587	350	33.28	4150	122	34.07	8963	232	38.70	8641	207	41.72
		GRENADE SMOKE SCREENING TNG M82										549	14	39.69
		GRENADE, LAUNCHER, SMK SCREENING,							1599	28		1265	20	
		GRENADE, STUN										1892	40	47.30
		GRENADE HAND SMOKE GREEN M18												
			23938			4150								
									14309					

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												FUZE GRENADE HAND PRAC M228 (E31900)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	73709	1328	3330			808	2135	2135	2135	2135		87715	
Gross Cost	61.7	3.9	10.5	0.0	0.0	1.9	5.1	5.1	5.2	5.2	0.0	98.6	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	61.7	3.9	10.5	0.0	0.0	1.9	5.1	5.1	5.2	5.2	0.0	98.6	
Initial Spares													
Total Proc Cost	61.7	3.9	10.5	0.0	0.0	1.9	5.1	5.1	5.2	5.2	0.0	98.6	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
The M228 fuze is a pyrotechnic delay-igniting fuze used with the M69 delay practice hand grenade. It is used by the individual soldier for training purposes. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.													
JUSTIFICATION:													
This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.													
TYPE CLASSIFICATION DATE:													
1971													

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: FUZE GRENADE HAND PRAC M228 (E31900)		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000
AMMUNITION HARDWARE Complete Round		8239	3330	2.47				1777	808
SubTotal AMMO Hardware		8239						1777	
Production Support Costs		255						118	
Production Engineering		12							
Quality Assurance		95							
Acceptance Testing		31						36	
Interim Transportation		353							
Industrial Stock Support		1506						154	
CAWCF Gain/Loss Surcharge		2252							
SubTotal Prod. Support				3.15				1931	
TOTAL		10491							2.39

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:							
PROCUREMENT OF AMMUNITION / 1 / Ammunition				FUZE GRENADE HAND PRAC M228 (E31900)							
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date	
Complete Round FY 96	Martin Electronics Perry, FL	C/FP	IOC	Sep-96	Dec-96	3330	2.47				
FY 99	TBS	C/FP	IOC	Mar-99	Dec-99	808	2.20	Yes		Oct-98	
REMARKS: TBS - To Be Selected											

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No.		Date:		February 1998								
PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Item Nomenclature:		GRENADE HAND SMOKE YELLOW M18 (E34002)								
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
		A										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	1897		40		75	130	106	106	106	106		2566
Gross Cost	29.6	0.0	1.3	0.0	2.4	4.3	2.7	2.7	2.7	2.8	0.0	48.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	29.6	0.0	1.3	0.0	2.4	4.3	2.7	2.7	2.7	2.8	0.0	48.5
Initial Spares												
Total Proc Cost	29.6	0.0	1.3	0.0	2.4	4.3	2.7	2.7	2.7	2.8	0.0	48.5
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												
<p>The M18 Yellow Smoke Hand Grenade is used for ground to air or ground to ground signaling. Each grenade emits smoke for approximately 50 to 90 seconds. The body is made of thin sheet metal and is filled with yellow smoke composition. The filler is topped with a starter mixture utilizing the M201A1 fuze. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.</p>												
JUSTIFICATION:												
<p>This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.</p>												
TYPE CLASSIFICATION DATE:												
1943												

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: GRENADE HAND SMOKE YELLOW M18 (E34002)			Weapon System Type:			Date: February 1998		
Ammunition Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE														
		Load, Assemble and Pack	1013	40059	25.29				2072	75287	27.52			
		Nitrocellulose WW GR D (LB)		33	7.97					61	4.04			
		Complete Round										3177	130445	24.36
SubTotal AMMO Hardware			1013						2072			3177		
Production Support Costs														
		Production Engineering	31						212			1099		
		Quality Assurance	1						5					
		Acceptance Testing	12						24					
		Interim Transportation	4						15					
		Industrial Stock Support	44						73			64		
		CAWCF Gain/Loss Surcharge	185											
SubTotal Prod. Support			277						329			1163		
TOTAL			1290		32.20				2401		31.89	4340		33.27

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No:			Weapon System Type:		P-1 Line Item Nomenclature:			Date: February 1998		
PROCUREMENT OF AMMUNITION / 1 / Ammunition			GRENADE HAND SMOKE YELLOW M18 (E34002)							
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Load, Assemble and Pack FY 96 FY 98 FY 99***	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	IOC	May-96	Apr-97	40059	25.29			Oct-97
	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	IOC	Mar-98	Apr-99	75287	27.52	Yes		
	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	IOC	Mar-99	Apr-00	130445	24.36	Yes		Oct-98
Nitrocellulose WW GR D (LB) FY 96 FY 98 FY 99	Alliant Tech Sys (Radford AAP) Radford, VA	SS/CPAF	IOC	Jan-96	Mar-97	33	7.97			
	Alliant Tech Sys (Radford AAP) Radford, VA	SS/CPAF	IOC	Jan-98	Mar-99	61	4.04	Yes		Oct-97
	Plant Procured	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
REMARKS: ***Complete Round										

Exhibit P-40, Budget Item Justification Sheet													Date:	February 1998
Appropriation / Budget Activity/Serial No:													P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition													GRENADE HAND SMOKE VIOLET M18 (E34004)	
Program Elements for Code B Items:													Other Related Program Elements:	
Code:													A	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty	1002				42	73	54	54	54	54		1333		
Gross Cost	14.0	0.0	0.6	0.0	1.3	2.8	1.4	1.4	1.5	1.5	0.0	24.5		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	14.0	0.0	0.6	0.0	1.3	2.8	1.4	1.4	1.5	1.5	0.0	24.5		
Initial Spares														
Total Proc Cost	14.0	0.0	0.6	0.0	1.3	2.8	1.4	1.4	1.5	1.5	0.0	24.5		
Flyaway U/C														
Wpn Sys Proc U/C														

DESCRIPTION:

The M18 Violet Smoke Hand Grenade is used for ground to air or ground to ground signaling. Each grenade emits smoke for approximately 50 to 90 seconds. The body is made of thin sheet metal and is filled with violet smoke composition. The filler is topped with a starter mixture utilizing the M201A1 fuze. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1943

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: GRENADE HAND SMOKE VIOLET M18 (E34004)			Weapon System Type:		Date: February 1988			
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE Load, Assemble and Pack Nitrocellulose WW GR D (LB)									1161	42190 34	27.53 4.04	1845	73499	25.11
SubTotal AMMO Hardware									1161			1845		
Production Support Costs									119			882		
Production Engineering									3					
Quality Assurance									13					
Acceptance Testing									8			37		
Interim Transportation									42			919		
Industrial Stock Support														
CAWCF Gain/Loss Surcharge														
SubTotal Prod. Support									185					
COST - Nonrecurring: Materiel Change			570											
SubTotal COST-Nonrecurring			570											
TOTAL				1140		1346		31.90	2764					37.61

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No:				Weapon System Type:		Date: February 1998						
PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: GRENADE HAND SMOKE VIOLET M18 (E34004)								
WBS Cost Elements:		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Fiscal Years												
Load, Assemble and Pack		Pine Bluff Arsenal		SS/FP	IOC	Mar-98	Apr-99	42190	27.53	Yes		Oct-97
FY 98		Pine Bluff, AR										
FY 99***		Pine Bluff Arsenal		SS/FP	IOC	Mar-99	Apr-00	73499	25.11	Yes		Oct-98
		Pine Bluff, AR										
Nitrocellulose VWV GR D (LB)		Alliant Tech Sys (Radford AAP)		SS/CPAF	IOC	Jan-98	Mar-99	34	4.04	Yes		Oct-97
FY 98		Radford, VA					N/A	N/A	N/A	N/A		N/A
FY 99		Plant Procured		N/A	N/A							
REMARKS: ***Complete Round												

Exhibit P-40, Budget Item Justification Sheet												Date:
PROCUREMENT OF AMMUNITION / 1 / Ammunition												February 1998
P-1 Item Nomenclature:												GRENAD HAND SMOKE TNG M83 (E69300)
Other Related Program Elements:												
Code:												A
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty		350	122	232	207	211	212	212	213		1759	
Gross Cost	0.0	0.0	4.2	9.0	8.6	6.3	6.4	6.4	6.6	0.0	59.1	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	4.2	9.0	8.6	6.3	6.4	6.4	6.6	0.0	59.1	
Initial Spares												
Total Proc Cost	0.0	0.0	4.2	9.0	8.6	6.3	6.4	6.4	6.6	0.0	59.1	
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												
<p>The M83 hand grenade contains approximately 1 pound of environmentally acceptable smoke mixture. The smoke mixture is initiated by a pyrotechnic delay-igniting fuze. After initiation, there is a 3 second delay after which a dense smoke cloud is produced to to conceal troop, vehicle, or other march movements. The M83 training grenade is deployed in a similar manner as the M8 series of service smoke grenades. It is used by the individual soldier in squad, company, and battalion units. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.</p>												
JUSTIFICATION:												
<p>This is a training unique item; not used in combat. This grenade is urgently needed to replace the current M8 HC filled munition with a training safe version to reduce the hazard of troop exposure carcinogenic HC smoke. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.</p>												
TYPE CLASSIFICATION DATE:												
1994												

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: GRENADE HAND SMOKE TNG M83 (E69300)			Weapon System Type:			Date: February 1998		
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE														
		Load, Assemble and Pack	10338	349750	29.56	3377	121808	27.73	7734	231594	33.39	5925	207133	28.61
		Nitrocellulose WW GR D (LB)	3	385	7.97				1	255	4.04			
SubTotal AMMO Hardware			10341			3377			7735			5925		
Production Support Costs														
		Production Engineering	614			154			790			2595		
		Quality Assurance	15			5			19					
		Acceptance Testing	123			37			89					
		Interim Transportation	41			32			56					
		Industrial Stock Support	453			134			274			121		
		CAWCF Gain/Loss Surcharge				411								
SubTotal Prod. Support			1246			773			1228			2716		
TOTAL			11587		33.13	4150		34.07	8963		38.70	8641		41.72

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No:			Weapon System Type:		P-1 Line Item Nomenclature:				Date: February 1998	
PROCUREMENT OF AMMUNITION / 1 / Ammunition					GRENADE HAND SMOKE TNG M83 (E69300)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
Load, Assemble and Pack FY 96	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	IOC	Mar-96	Oct-96	349750	29.56			Dec-96
FY 97***	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	IOC	Mar-97	Apr-98	121808	27.73	Yes		
FY 98	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	IOC	Mar-98	Apr-99	231594	33.39	Yes		Oct-97
FY 99***	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	IOC	Mar-99	Apr-00	207133	28.61	Yes		Oct-98
Nitrocellulose WW GR D (LB) FY 96	Alliant Tech Sys (Radford AAP) Radford, VA	SS/CPAF	IOC	Jan-96	Mar-96	385	7.97	Yes		
FY 97	Plant Procured	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
FY 98	Alliant Tech Sys (Radford AAP) Radford, VA	SS/CPAF	IOC	Jan-98	Mar-99	255	4.04	Yes		Oct-97
FY 99	Plant Procured	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
REMARKS: TBS - To Be Selected ***Complete Round										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												SIGNALS, ALL TYPES (E46900)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	306.8	0.7	17.8	1.3	7.7	13.0	13.6	15.3	13.9	14.0	0.0	404.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	306.8	0.7	17.8	1.3	7.7	13.0	13.6	15.3	13.9	14.0	0.0	404.1	
Initial Spares													
Total Proc Cost	306.8	0.7	17.8	1.3	7.7	13.0	13.6	15.3	13.9	14.0	0.0	404.1	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
This budget line includes Signals ALL TYPES.													

Exhibit P-5, Weapon Ammo Cost Analysis

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: SIGNALS, ALL TYPES (E46900)		Weapon System Type:		Date: February 1998
Ammunition Cost Elements		FY 96		FY 97		FY 98		FY 99
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost
		\$000	Each	\$	\$000	Each	\$	\$000
SMOKE POT PRACTICE M8		8933	23					
SIGNAL ILLUM GND WS PARA M127A1		2652	60040	44.17		13000	406.00	6899
FLARE SURFACE TRIP M49 SERIES					354	9613	41.01	2098
SIGNAL SMOKE & ILLUM MK 124 MOD 0					620	29971	30.29	2293
SIGNAL ILLUM GND WS CLUSTER M159					318	8197		735
SIGNAL ILLUM GRD GS CLUSTER		1750	39988	43.76				960
M125A1		1506	34413	43.76				
SIGNAL KIT PERSONNEL DISTRESS RED		2957	32501	91.00				
TOTAL		17798			1292			12985

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												SMOKE POT PRACTICE M8 (E62900)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												B	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty			23		13	17	17	18	17	17		122	
Gross Cost	148.0	0.0	8.9	0.0	5.2	6.9	6.8	7.3	7.0	7.1	0.0	197.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	148.0	0.0	8.9	0.0	5.2	6.9	6.8	7.3	7.0	7.1	0.0	197.2	
Initial Spares													
Total Proc Cost	148.0	0.0	8.9	0.0	5.2	6.9	6.8	7.3	7.0	7.1	0.0	197.2	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The M8 Smoke Pot is a five-gallon metal pail containing about 25 pounds of environmentally acceptable smoke mixture. It is initiated by a pyrotechnic delay igniting fuze. After ignition, about a 25 second delay, a dense smoke cloud is produced for screening purposes to conceal troop, vehicle, or other march movements. It is deployed in a similar manner as the service smoke pots, M4 series and M5. It is used by the individual soldier in squad, company and battalion units. This item is code B, not approved for service use. This item will be procured as actual cost beginning in FY99.

JUSTIFICATION:

This training pot is urgently needed to replace the current M4A2 HC filled munition with a training munition with a reduced hazard for troops exposed during training. This is a Materiel Change program number 1-88-09-7331.

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: SMOKE POT PRACTICE M8 (E62900)			Weapon System Type:			Date: February 1998		
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE														
		Load, Assemble, and Pack	2728	21344	127.81				1661	12500	134.00	2419	16500	147.00
		Chemicals	2837	22198	127.80				1648	12700	130.00	2201	16750	131.00
		Metal Parts	2649	22198	119.34				1537	12700	121.00	2056	16750	123.00
SubTotal AMMO Hardware			8214		375				4846		393	6676		401
Production Support Costs														
		Production Engineering	250						145			189		
		Quality Assurance	11						13			16		
		Acceptance Testing	92						60			18		
		Interim Transportation	30						13					
		Industrial Stock Support	336						83					
		CAWCF Gain/Loss Surcharge												
SubTotal Prod. Support			719		34				314		34	223		13
COST - Nonrecurring														
SubTotal COST-Nonrecurring														
TOTAL			8933		409				5160		427	6899		414

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:										February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition										
Weapon System Type:										
P-1 Line Item Nomenclature:										
SMOKE POT PRACTICE M8 (E62900)										
WBS Cost Elements:	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost	Specs Avail Now?	Date Revis Avail	RFP Issue Date	
Fiscal Years					Each	\$				
Load, Assemble, and Pack										
FY 96	Pine Bluff Arsenal	SS/GOGO CBDCOM	Jan-96	Oct-97	21344	128				
FY 98	Pine Bluff Arsenal	SS/GOGO CBDCOM	Jan-98	Oct-99	12500	134				
FY 99	Pine Bluff Arsenal	SS/GOGO CBDCOM	Jan-99	May-00	16500	147				
Chemicals										
FY 96	Unknown	C/FP Pine Bluff Arsenal	Jul-96	Jul-97	22198	128				
FY 98	Unknown	C/FP Pine Bluff Arsenal	Jul-98	Jul-99	12700	130				
FY 99	Unknown	C/FP Pine Bluff Arsenal	Jul-99	Oct-00	16750	131				
Metal Parts										
FY 96	Unknown	C/FP Pine Bluff Arsenal	Jul-96	Jul-97	22198	119				
FY 98	Unknown	C/FP Pine Bluff Arsenal	Jul-98	Jul-99	12700	121				
FY 99	Unknown	C/FP Pine Bluff Arsenal	Jul-99	Oct-00	16750	123				
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
SIGNAL ILLUM GND WS PARA M127A1 (E46800)												
Program Elements for Code B Items:												Other Related Program Elements:
Code: A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	9940	60	10	43	52	67	67	68	68		10375	
Gross Cost	97.0	0.3	2.7	1.8	2.1	2.7	2.7	2.8	2.9	0.0	115.3	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	97.0	0.3	2.7	1.8	2.1	2.7	2.7	2.8	2.9	0.0	115.3	
Initial Spares												
Total Proc Cost	97.0	0.3	2.7	1.8	2.1	2.7	2.7	2.8	2.9	0.0	115.3	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

This signal consists of a parachute suspended illuminant assembly, and a rocket motor propulsion assembly contained in a hand-held aluminum launching tube, deployed by the individual soldier. The base of the launching tube contains a primer and an initiating charge. Stabilizing fins on the rocket are folded parallel to the axis of the signal. The burning time is 40 seconds and candlepower is 125,000. Pyrotechnic charge is illuminant composition. Initiation charge, propelling charge, and expelling charge consist of black powder. The length is 10.16 inches and diameter is 1.67 inches. This signal is packed 36 each per wooden box. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1961

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: SIGNAL ILLUM GND WS PARA M127A1 (E46800)				Weapon System Type:		Date: February 1998	
Ammunition Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE														
		Load, Assemble and Pack	2037	60040	33.94	293	9613	30.53	1484	42992	34.51	1984	51531	38.49
		Box Metal M458	46	2528	18.12	6	405	15.12	38	1810	20.89	44	2170	20.42
SubTotal AMMO Hardware			2083			299			1522			2028		
Production Support Costs														
		Production Engineering	65			13			155			62		
		Quality Assurance	3						4			11		
		Acceptance Testing	24			3			17					
		Interim Transportation	8			3			11			1		
		Industrial Stock Support	88			1			54			40		
		CAWCF Gain/Loss Surcharge	381			35								
SubTotal Prod. Support			569			55			241			114		
COST - Nonrecurring														
		*Government Furnished Material										-44		
SubTotal COST-Nonrecurring												-44		
TOTAL			2652		44.17	354		36.82	1763		41.01	2098		40.71

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: SIGNAL ILLUM GND WS PARA M127A1 (E46800)				
Load, Assemble and Pack									
FY 96	Security Signals Inc. Cordova, TN	IOC	Aug-96	Apr-98	60040	33.94	Yes		Jul-97
FY 97	Security Signals Inc. Cordova, TN	IOC	Oct-97	Jun-98	9613	30.53	Yes		Oct-97
FY 98	Security Signals Inc. Cordova, TN	IOC	Jan-98	Oct-98	42992	34.51	Yes		Oct-98
FY 99	TBS	IOC	Mar-99	Jan-00	51531	38.49	Yes		Oct-98
*Box Metal M458 FY 96	Conco Inc. Louisville, KY	IOC	Jun-96	Dec-96	2528	18.12	Yes		Oct-97
FY 97	TBS	IOC	Jan-98	Jun-98	405	15.12	Yes		Apr-98
FY 98	TBS	IOC	Jul-98	Oct-98	1810	20.89	Yes		N/A
FY 99	Stock Issue	N/A	N/A	N/A	2170	N/A	N/A		
REMARKS:					TBS - To Be Selected *Government Furnished Material				

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												FLARE SURFACE TRIP M49 SERIES (E49200)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: A													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	14924			30	25	125	50	41	41	41		15277	
Gross Cost	43.4	0.0	0.0	0.6	0.8	2.3	1.0	0.8	0.8	0.8	0.0	50.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	43.4	0.0	0.0	0.6	0.8	2.3	1.0	0.8	0.8	0.8	0.0	50.5	
Initial Spares													
Total Proc Cost	43.4	0.0	0.0	0.6	0.8	2.3	1.0	0.8	0.8	0.8	0.0	50.5	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The M49 Trip Flare consists of an illuminant assembly, cover loading assembly, and mounting bracket assembly. The M49 is activated by tripping a wire attached to a trigger mechanism. Upon activation, the flare is ignited providing a light intensity of 35,000 candle power for approximately one minute. The M49 is used to provide warning of infiltrating troops. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1975

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: FLARE SURFACE TRIP M49 SERIES (E49200)			Weapon System Type:		Date: February 1998			
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE														
Complete Round														
SubTotal AMMO Hardware														
Production Support Costs														
Production Engineering														
Quality Assurance														
Acceptance Testing														
Interim Transportation														
Industrial Stock Support														
CAWCF Gain/Loss Surcharge														
SubTotal Prod. Support														
TOTAL														

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type:		P-1 Line Item Nomenclature: FLARE SURFACE TRIP M49 SERIES (E49200)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Reven Avail	RFP Issue Date
Complete Round										
FY 97	Lance Ordnance Mayo, FL	C/FP	IOC	May-97	Feb-98	29971	17.54	Yes		Feb-97
FY 98	Lance Ordnance Mayo, FL	C/FP	IOC	Dec-97	Apr-98	25191	26.14	Yes		Oct-97
FY 99	TBS	C/FP	IOC	Mar-99	May-00	124537	17.66	Yes		Oct-98
REMARKS: TBS - To Be Selected										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
P-1 Item Nomenclature:												
SIMULATORS, ALL TYPES (E51200)												
Program Elements for Code B Items:												
Code:												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	193.4	9.4	3.3	2.8	4.5	4.7	4.1	7.9	6.9	8.4	0.0	245.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	193.4	9.4	3.3	2.8	4.5	4.7	4.1	7.9	6.9	8.4	0.0	245.4
Initial Spares												
Total Proc Cost	193.4	9.4	3.3	2.8	4.5	4.7	4.1	7.9	6.9	8.4	0.0	245.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

This budget line includes Simulators ALL TYPES.

Exhibit P-5, Weapon Ammo Cost Analysis

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: SIMULATORS, ALL TYPES (E51200)			Weapon System Type:			Date: February 1998		
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		SIMULATOR TARGET KILL M26							675	45	15.17			
		SIMULATOR TARGET HIT M25				348	35	10.07	333	39	8.54	476	53	9.05
		SIMULATOR ANTITANK M27				849	10	95.86				1556	19	84.16
		SIMULATOR PROJ AIRBURST M74							307	20	15.00	868	60	14.58
		SIMULATOR PROJ GND BURST	2390	308	7.76	1349	256	5.28	2517	425	5.92	97		
		SIMULATOR HAND GRENADE M116A1	954	233	4.10	221	69	3.20	639	178	3.59	715	231	3.10
		SIMULATOR DIRECT/INDIRECT FIRE										486	250	
		SIMULATOR MAIN TANK GUN XM28										453	318	
TOTAL			3344			2767			4471			4651		

Exhibit P-40, Budget Item Justification Sheet													Date:
Appropriation / Budget Activity/Serial No:													February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition													
P-1 Item Nomenclature:													
SIMULATOR PROJ GND BURST M115A2 (E49700)													
Program Elements for Code B Items:													
Other Related Program Elements:													
Code: A													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	9639	338	308	256	425		327	500	500	500		12793	
Gross Cost	49.2	2.5	2.4	1.3	2.5	0.1	1.6	2.5	2.5	2.6	0.0	67.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	49.2	2.5	2.4	1.3	2.5	0.1	1.6	2.5	2.5	2.6	0.0	67.2	
Initial Spares													
Total Proc Cost	49.2	2.5	2.4	1.3	2.5	0.1	1.6	2.5	2.5	2.6	0.0	67.2	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
This item simulates battle noises and effects of shell in-flight and ground explosions. The body of the simulator consists of a cylindrical paper tube containing a photoflash and a whistle assembly. The M115A2 simulator is a hand-thrown device actuated by a pullcord igniter. A safety fuze provides a 6 to 10 second delay before igniting the whistle composition in the whistle assembly. The final burning is accomplished by ignition of the photoflash charge effecting flash and a loud report. Dimensions of the M115A1 Simulator: 7.13 inches x 2.33 inches; weight: 3 pounds. This simulator is packed 100 each per wooden box. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.													
JUSTIFICATION:													
This is a training unique item; not used in combat. Procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.													
TYPE CLASSIFICATION DATE:													
1960													

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: SIMULATOR PROJ GND BURST M115A2 (E49700)				Weapon System Type:		Date: February 1998	
Ammunition Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
		AMMUNITION HARDWARE	1877	308009	6.09	1144	255560	4.48	2172	425147	5.11			
		Load, Assemble and Pack		68	3.12		57	3.12		94	3.12			
		*Fuze Powder, Type I (LB)												
		SubTotal AMMO Hardware	1877			1144			2172					
		Production Support Costs												
		Production Engineering	58			46			222			87		
		Quality Assurance	3			2			5			10		
		Acceptance Testing	22			12			25					
		Interim Transportation	7			11			16					
		Industrial Stock Support	80						77					
		CAWCF Gain/Loss Surcharge	343			134								
		SubTotal Prod. Support	513			205			345			97		
		COST - Nonrecurring												
		*Government Furnished Material												
		SubTotal COST-Nonrecurring												
		TOTAL	2390		7.76	1349		5.28	2517		5.92	97		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type:		P-1 Line Item Nomenclature: SIMULATOR PROJ GND BURST M115A2 (E49700)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble and Pack FY 96	Lance Ordnance Mayo, FL	C/FP	IOC	May-96	Nov-96	308069	6.09			
FY 97	Lance Ordnance Mayo, FL	C/FP	IOC	Feb-97	Aug-97	255560	4.48	Yes		Oct-96
FY 98	TBS	C/FP	IOC	Mar-98	Mar-99	425147	5.11	Yes		Oct-97
*Fuze Powder Type I FY 96	Stock Issue	N/A	N/A	N/A	N/A	68	N/A	N/A		N/A
FY 97	Stock Issue	N/A	N/A	N/A	N/A	57	N/A	N/A		N/A
FY 98	Stock Issue	N/A	N/A	N/A	N/A	94	N/A	N/A		N/A
REMARKS: TBS - To be Selected *Government Furnished Material										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												AMMO COMPONENTS, ALL TYPES (EB0016)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	753.5	5.5	2.1	1.2	4.7	7.2	7.0	6.9	7.0	7.1	0.0	802.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	753.5	5.5	2.1	1.2	4.7	7.2	7.0	6.9	7.0	7.1	0.0	802.2	
Initial Spares													
Total Proc Cost	753.5	5.5	2.1	1.2	4.7	7.2	7.0	6.9	7.0	7.1	0.0	802.2	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
This budget line includes all Ammo Components/Support items.													

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: AMMO COMPONENTS, ALL TYPES (EB0016)			Weapon System Type:		Date: February 1998				
Ammunition Cost Elements			ID	FY 96			FY 97			FY 98			FY 99		
			CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
				\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
COMPONENTS FOR RENOVATION OF FIELD STOCK				543			100			4622			6234		
WEAPON COMP IN SPT OF PROOF/ACPT TESTING				1592			1061			93			1007		
TOTAL				2135			1161			4715			7241		

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
Program Elements for Code B Items:												COMPONENTS FOR RENOVATION OF FIELD STOCK (EA0500)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	495.0	4.4	0.5	0.1	4.6	6.2	6.0	5.9	6.0	6.1	0.0	534.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	495.0	4.4	0.5	0.1	4.6	6.2	6.0	5.9	6.0	6.1	0.0	534.8
Initial Spares												
Total Proc Cost	495.0	4.4	0.5	0.1	4.6	6.2	6.0	5.9	6.0	6.1	0.0	534.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

These components are used to support the renovation of ammunition items currently in the Army inventory. All components are centrally managed and procured by the Industrial Operations Command. Items support worldwide ammunition requirements in order to maintain the inventory in a serviceable status ready for issue to the troops.

JUSTIFICATION:

The requirements determination takes into consideration the need for the end item to which the component applies, the capability and the capacity of the workforce to apply the component and the capability of the storage, distribution and transportation system to move the end item and component if necessary. The components are required to bring stocks that are no longer in an issuable condition back to an issuable condition. The alternative is to fill requirements with new procurement. It is much more cost effective to correct most stockpile deficiencies through renovation than through new procurement.

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: COMPONENTS FOR RENOVATION OF FIELD STOCK (EA0500)				Weapon System Type:		Date: February 1998		
Ammunition Cost Elements			ID	FY 96		FY 97		FY 98		FY 99					
			CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Components for Renovation of Field Stock				543			100			4622			6234		
				543			100			4622			6234		
SUB-TOTAL															
TOTAL				543			100			4622			6234		

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
Program Elements for Code B Items:												WEAPON COMP IN SPT OF PROOF/ACPT TESTING (EA1200)
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	38.4	1.1	1.6	1.1	0.1	1.0	1.0	1.0	1.0	1.0	0.0	47.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	38.4	1.1	1.6	1.1	0.1	1.0	1.0	1.0	1.0	1.0	0.0	47.4
Initial Spares												
Total Proc Cost	38.4	1.1	1.6	1.1	0.1	1.0	1.0	1.0	1.0	1.0	0.0	47.4
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												
<p>This funding line procures weapons and weapons components required by the U.S. Army Test and Evaluation Command (TECOM) in support of ammunition testing. These components are requisitioned from the Army Stock Fund on a reimbursable basis. Required components include mounts, tubes, breech assemblies, and other main weapon components that are not supportable by requisition objectives at test activity locations.</p>												
JUSTIFICATION:												
<p>These weapon components are required to support proof and acceptance testing at various Army Proving Grounds. Without these components, the Army would be unable to conduct the testing required to accept ammunition end items into its inventory.</p>												

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: WEAPON COMP IN SPT OF PROOF/ACPT TESTING (EA1200)			Weapon System Type:			Date: February 1998		
ID	CD	Ammunition Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		Weapon Comp in Spt of Proof/Acpt Testing	1592			1061			93			1007		
		SUB TOTAL	1592			1061			93			1007		
		TOTAL	1592			1061			93			1007		

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CAD/PAD ALL TYPES (EA0003)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	58.9	2.3	1.5	1.0	1.1	2.3	3.0	4.4	5.1	5.6	0.0	85.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	58.9	2.3	1.5	1.0	1.1	2.3	3.0	4.4	5.1	5.6	0.0	85.2	
Initial Spares													
Total Proc Cost	58.9	2.3	1.5	1.0	1.1	2.3	3.0	4.4	5.1	5.6	0.0	85.2	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
Cartridge Actuated Devices (CAD) and Propellant Actuated Devices (PAD) are used in various escape and jettison systems on all types of Army aircraft.													
JUSTIFICATION:													
Required to support aircraft escape and jettison systems and mission essential needs. Items are subject to shelf and service life restrictions and therefore require replacement at specified intervals. FY 99 procurement is required to assure availability of replacement items when needed and avoids grounding aircraft or rendering aircraft partially mission capable.													

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998		
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:		ITEMS LESS THAN \$2 MILLION (EA0055)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												Other Related Program Elements:			
Program Elements for Code B Items:												Code:			
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog			
Proc Qty															
Gross Cost	171.5	1.9	2.1	2.1	0.8	0.8	1.8	1.8	0.8	0.9	0.0	184.5			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	171.5	1.9	2.1	2.1	0.8	0.8	1.8	1.8	0.8	0.9	0.0	184.5			
Initial Spares															
Total Proc Cost	171.5	1.9	2.1	2.1	0.8	0.8	1.8	1.8	0.8	0.9	0.0	184.5			
Flyaway U/C															
Wpn Sys Proc U/C															
DESCRIPTION:															
This budget line includes miscellaneous ammunition items less than \$2 million.															

Exhibit P-5, Weapon Ammo Cost Analysis

Exhibit P-5, Weapon Ammo Cost Analysis						Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: ITEMS LESS THAN \$2 MILLION (EA0055)		Weapon System Type:		Date:
		FY 96		FY 97		FY 98		FY 99				
ID		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
CD		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each
	CTG 12 GAUGE #9 SHOT				542							
	CTG 10 GAUGE BLANK	29	49	0.59								
	CTG CAL .22 LR MATCH F/PISTOL	156	1200	0.13								
	CTG 12 GAUGE FLASH/BANG NON-LETHAL	1396			113							
	USAMTU FT BENNING	160			1247							
	NEW EQUIPMENT TRAINING	404			233							
	RIOT CONTROL AGENT CS CAPSULE				87							
	TOTAL	2145			2222			801			749	

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No.		Date: February 1998										
PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Item Nomenclature: AMMUNITION PECULIAR EQUIPMENT (EA0575)										
Program Elements for Code B Items:		Other Related Program Elements:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	67.7	4.6	4.9	5.2	8.4	10.4	10.8	9.9	9.4	9.1	0.0	140.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	67.7	4.6	4.9	5.2	8.4	10.4	10.8	9.9	9.4	9.1	0.0	140.4
Initial Spares												
Total Proc Cost	67.7	4.6	4.9	5.2	8.4	10.4	10.8	9.9	9.4	9.1	0.0	140.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
Ammunition Peculiar Equipment (APE) is unique, low density equipment items specifically designed, fabricated, tested, procured, and adopted for use in ammunition depot operations on conventional and chemical ammunition. These depot operations involve maintenance, demilitarization, preservation/packaging, and surveillance functions on the ammunition item. APE is not stocked nor is it available from commercial sources. This equipment is different from production line plant equipment in that it disassembles ammunition items into components, usually for the removal of a hazardous component. APE is also designed to perform cleaning and reservation functions on ammunition subjected to deterioration effects (rust, corrosion, weathering, etc) during its storage life. APE supporting surveillance is keyed to stockpile sampling and funding tests of the items to assure readiness for combat or training. Demilitarization APE is similar somewhat to maintenance APE but must go further in disassembly to destroy hazardous components and reclaim salvageable parts or metals. APE is designed, developed, and fielded to support ammunition field service stocks that are currently on hand in the inventory control point and is used to restore these stocks to an issuance/serviceable condition.

JUSTIFICATION:
The APE and replacement parts must be on-hand to perform any of the ammunition depot operations for conventional and chemical ammunition. The ammunition depot operations cannot be accomplished if the required APE is not supplied in a timely manner. Ammunition readiness will be in jeopardy, public laws on environment and safety involving hazardous materiel may be violated, and a possible loss of life and Government property may result through altering of equipment to meet ammunition operations requirements. The APE is centrally managed by HQ,IOC. The equipment is loaded to worldwide locations for the accomplishment of depot type operations based on the ammunition requirements. The equipment described herein is required to support the following ammunition programs: Integrated Conventional Ammunition Maintenance Plan (ICAMP), surveillance program for lethal chemical agents and munitions; equipment for worldwide maintenance lines; equipment to support the toxic chemical maintenance facilities; Prepositioned Ships; and also to support Government-owned, contractor-operated plants as Government furnished equipment (GFE) in support of ammunition depot operations at those locations.

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
FIRST DESTINATION TRANSPORTATION (AMMO) (EA0550)												
Program Elements for Code B Items:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	704.5	4.8	4.3	5.3	6.4	6.2	5.3	5.2	5.3	5.4	0.0	752.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	704.5	4.8	4.3	5.3	6.4	6.2	5.3	5.2	5.3	5.4	0.0	752.7
Initial Spares												
Total Proc Cost	704.5	4.8	4.3	5.3	6.4	6.2	5.3	5.2	5.3	5.4	0.0	752.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

Transportation funds are required to support procurement and distribution of Army ammunition end items from manufacturing plants or assembly points; e.g., AAP, to a CONUS depot, customer, other point of first acceptance into the Army supply system or to a port for transportation to a second destination; e.g., OCONUS customers. These funds directly support training and readiness requirements of soldiers in the field (CONUS and OCONUS) to include major OCONUS programs such as Europe and Korea training and prepositioned war reserve requirements; war reserves support to allies (Korea and Thailand); afloat prepositioned ships, etc.

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support												INDUSTRIAL FACILITIES (EP1200)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	4610.2	60.3	44.4	49.7	24.3	47.7	61.4	63.0	68.1	73.4	0.0	5102.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	44.4	49.7	24.3	47.7	61.4	63.0	68.1	73.4	0.0	432.0	
Initial Spares													
Total Proc Cost	0.0	0.0	44.4	49.7	24.3	47.7	61.4	63.0	68.1	73.4	0.0	432.0	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Industrial Facilities (IF) budget request contains funding for correction of environmental deficiencies at existing facilities, design of future projects to meet peacetime or future requirements, and replacement of obsolete or worn production equipment and correction of infrastructure.

	FY 96	FY 97	FY 98	FY 99
Environmental	\$ 9.3	\$ 8.1	\$ 8.1	\$ 14.1
Production Support	35.1	41.6	16.2	33.6
TOTAL	\$ 44.4	\$ 49.7	\$ 24.3	\$ 47.7

JUSTIFICATION: Funds are used for the establishment, augmentation, and improvement of production capability for items procured under the ammunition appropriations. Funds also correct environmental problems, which if left unfunded would result in costly fines and penalties against the Army.

Exhibit P-40C Budget Item Justification Sheet				Date	February 1998	
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		INDUSTRIAL FACILITIES (EP1200)		
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support		Other Related Program Elements				
Program Elements for Code B Items		Code				
LOCATION	PROJECT TITLE	PROJECT	FY 1996	FY 1997	FY 1998	FY 1999
PRODUCTION SUPPORT						
HOLSTON ARMY AMMUNITION PLANT (AAP)	Production Support and Equipment Replacement	59X5328	2902			
IOWA AAP	Production Support and Equipment Replacement	59X5333	2038	404		2240
IOWA AAP	Replace Water Main, Line 2	5993323				807
IOWA AAP	Manufacturing Management System (MRP II)	5973339		2205		
LAKE CITY AAP	Production Support and Equipment Replacement	59X5332	2817		703	3687
LAKE CITY AAP	Automated Data Management System	59X2956	3384	874		
LAKE CITY AAP	Recondition Case Line Number 2	5962962	1263			
LAKE CITY AAP	Small Caliber Flexible Production Line	5972969		5695		
LAKE CITY AAP	Consolidation of Operations, Building 3	5963326	901			
LAKE CITY AAP	Manhurin Loader Upgrade	5983330			2246	
LAKE CITY AAP	Caliber .50 Upgrade	5983331			1722	
LAKE CITY AAP	Stores, Tool/Gage and Machine Shop Consolidation	5993335				1860
LAKE CITY AAP	7.62mm Upgrade/Consolidation	5973342		1878		
LONE STAR AAP	Production Support and Equipment Replacement	59X5316	256	138		1795
LONE STAR AAP	105mm XM915/916 Dual Purpose Improved Conventional Munitions (DPICM) Load, Assemble and Pack (LAP)	5960145	1856			
LONE STAR AAP	Replace Area 1 Heating System	5962957	987			
LONE STAR AAP	Manufacturing Management System (MRP II)	5973336		3298		
MILAN AAP	Production Support and Equipment Replacement	59X5317	1748	1676		2221
MILAN AAP	Construct Fire Station	5962700	2626			
MILAN AAP	Facilitization for 120mm High Explosive (HE) Mortar	59X3320	37	4121		

Exhibit P-40C Budget Item Justification Sheet					Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		INDUSTRIAL FACILITIES (EP1200)		
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support						
Program Elements for Code B Items		Code	Other Related Program Elements			
LOCATION	PROJECT TITLE	PROJECT	FY 1996	FY 1997	FY 1998	FY 1999
<u>PRODUCTION SUPPORT</u>						
PINE BLUFF ARSENAL	120mm Mortar Body Assembly Facility	5960177	1192			
RADFORD AAP	Production Support and Equipment Replacement	59X5326	1849	2375	813	3470
RADFORD AAP	Manufacturing Management System (MRP II)	5972871		3930		
RADFORD AAP	Overhead Electrical Service	59X2783			837	476
RADFORD AAP	Replace Three Acid Tanks	5962961	1908			
RADFORD AAP	Replace Wood Tanks, Building 419	5972965		1941		
RADFORD AAP	Replace Raw Water Supply Line, Buildings 408-409	5993322				2084
RADFORD AAP	Replace Natural Gas Lines	5993314				4782
RADFORD AAP	Steam Plant Claim	5973565		309		
RADFORD AAP	Hydra 70 X-Ray Equipment	5961000	629			
RIVERBANK AAP	Large Caliber Deep Drawn Cartridge Cases	5983311			3000	
SCRANTON AAP	Production Support and Equipment Replacement	59X5342	581	1735		2195
SCRANTON AAP	Computer Integrated Manufacturing Support	5973329		1500		
HARRY DIAMOND LABORATORY	Production Support and Equipment Replacement	5961924	125			
PROVING GROUND	Production Support and Equipment Replacement	59X5060	1333	1425	1400	1200
VARIOUS AAPs	Federal Energy Management Program (FEMP)	59X5201		1900		
VARIOUS AAPs	Engineering Design	59X3046	6609	6179	5493	6740
Sub Total - Production			35,041	41,583	16,214	33,557

Exhibit P-40C Budget Item Justification Sheet					Date	February 1998
Appropriation / Budget Activity / Serial No.		P-1 Item Nomenclature				
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support		INDUSTRIAL FACILITIES (EP-1200)				
Program Elements for Code B Items		Code	Other Related Program Elements			
LOCATION	PROJECT TITLE	PROJECT	FY 1996	FY 1997	FY 1998	FY 1999
ENVIRONMENTAL						
HOLSTON AAP	Production Support and Equipment Replacement	59X5328			222	
HOLSTON AAP	Correct Inflow/Infiltration in Sanitary Sewer	5962979	2901			
HOLSTON AAP	Industrial Wastewater Treatment	5962856	3764			
HOLSTON AAP	Plant-Wide Diking	5982923			3457	
HOLSTON AAP	Replace Industrial Wastewater Line	5972938		3157		
HOLSTON AAP	Acid A Industrial Wastewater Equalization/ Spill Ponds to Concrete Tanks	5992994				1846
IOWA AAP	Production Support and Equipment Replacement	59X5333	105	853	1106	1459
IOWA AAP	Hazardous Waste/Material Process Facility	5992952				2016
IOWA AAP	Install Detonation Chamber/Molton Salt to Replace Open Burn/Open Detonation (OB/OD	5993357				1792
LAKE CITY AAP	Equipment Retrofit for Water Based Mouth Waterproofing	5993355				3994
LAKE CITY AAP	Production Support and Equipment Replacement	59X5332		947	540	
LONE STAR AAP	Production Support and Equipment Replacement	59X5316	161		879	
MILAN AAP	Production Support and Equipment Replacement	59X5317	716	411	1277	1116
MILAN AAP	Upgrade Composition C-4 Facility	5972984		329		
RADFORD AAP	Production Support and Equipment Replacement	59X5326		728	478	
RADFORD AAP	Close Bioplant Equalization Basin	5962941	1444			
RADFORD AAP	Install Diffuser	5973312		1144		
RADFORD AAP	Correct Defects in Equalization Tanks	5993313				1880
RADFORD AAP	Correct Deficiencies in C-Line Duct Work	5973347		325		

Exhibit P-40C Budget Item Justification Sheet				Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature			
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support		INDUSTRIAL FACILITIES (EP1200)			
Program Elements for Code B Items	Code	Other Related Program Elements			
LOCATION	PROJECT TITLE	PROJECT	FY 1996	FY 1997	FY 1998
<u>ENVIRONMENTAL</u>					
SCRANTON AAP	Production Support and Equipment Replacement	59X5342			126
VARIOUS AAPs	Correct Environmental Deficiencies	59X2910	224	255	
	SUBTOTAL		9,315	8,149	8,085
	TOTAL INDUSTRIAL FACILITIES		44,356	49,732	24,299
					47,660

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE
2. PROJECT TITLE/TYPE		3. END ITEM SUPPORTED MODEL				5. ANNUAL CAPACITY BEFORE PROJECT (1-8.5)				February 1998
Environmental-Hazardous Waste/Material Process Facility		Not Applicable				Medium and Large Caliber projectiles and 40 pound cratering charge				
4. PROJECT NUMBER		5. ANNUAL CAPACITY AFTER PROJECT (1-8.5)				6. ANNUAL CAPACITY AFTER PROJECT (1-8.5)				
5992952		Not Applicable				Not Applicable				
ELEMENT OF COST		FY 96	FY 97	FY 98	FY 99	H. FACILITY				
						1. NAME Iowa Army Ammunition Plant				
						2. LOCATION Middletown, Iowa				
						3. TYPE (GOGO, GOCO, COCO) GOCO				
I. RELATED PROJECTS										
A. CONSTRUCTION COST					1,863					
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)										
1.					0					
2.					0					
3.					0					
SUBTOTAL EQUIPMENT COST					0					
C. EQUIPMENT INSTALLATION COST					0					
D. CONTRACTOR SUPPORT COST					41					
E. CORPS OF ENGINEERS SUPPORT COST					112					
F. OTHER IN-HOUSE SUPPORT COST										
TOTAL FACILITY PROJECT COST					2,016					
G. OTHER COSTS										
1. FACILITY PROVE-OUT COST					0					
2. MILITARY CONSTRUCTION APPN.					0					
J. PRINCIPAL MILESTONES										
1. CONCEPT DESIGN COMPLETE										
2. FINAL DESIGN COMPLETE										
3. INITIAL/FINAL PROJECT AWARD										
4. CONSTRUCTION COMPLETE										
5. EQUIPMENT INSTALLATION COMPLETE										
6. PROVE OUT BEGINS										
7. PROVE OUT COMPLETE										
MONTH & YEAR										
Jun-98										
Nov-97										
Feb-99/Feb-99										
Jul-00										
Not Applicable										
Not Applicable										
Not Applicable										
NARRATIVE EXPLANATION										
This project will provide a facility to be used to collect and contain hazardous materials (HM) and hazardous wastes (HW) until they can be properly processed and classified. HM and HW is produced as a result of all aspects of production. Currently, the HM/HW operations are scattered throughout the plant and include such items as spent solvents, explosive contaminated carbon, diatomaceous earth, ebionizing solutions, laboratory chemicals, spent oils, and lead sludge wastes. This effort will combine these items into one central point of control.										

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 1998	
2. PROJECT TITLE/TYPE Preparation of Equipment and Construction Design		3. END ITEM SUPPORTED MODEL				Multiple					
4. PROJECT NUMBER 5993046		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable				6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable					
ELEMENT OF COST		FY 96	FY 97	FY 98	FY 99	H. FACILITY 1. NAME 2. LOCATION 3. TYPE (GOGO, GOCO, COCO)					
A. CONSTRUCTION COST		0	0	0	0	Multiple					
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)						Multiple					
1.						Multiple					
2.											
3.											
SUBTOTAL EQUIPMENT COST		0	0	0	0						
C. EQUIPMENT INSTALLATION COST		0	0	0	0						
D. CONTRACTOR SUPPORT COST		0	0	0	0						
E. CORPS OF ENGINEERS SUPPORT COST		2,972	2,590	1,995	2,969						
F. OTHER IN-HOUSE SUPPORT COST		3,637	3,589	3,498	3,771						
TOTAL FACILITY PROJECT COST		6,609	6,179	5,493	6,740						
G. OTHER COSTS											
1. FACILITY PROVE-OUT COST		0	0	0	0						
2. MILITARY CONSTRUCTION APPN.		0	0	0	0						
NARRATIVE EXPLANATION		<p>This project will provide the annual funding increment for the Industrial Facilities (IF) Program. These funds are used for the initiation and/or continuation of construction design criteria, equipment and construction concept and final design, process design specifications, procurement packages, design reviews and design related analyses, preparation and incorporation of engineering change proposals, preparation of environmental evaluation to determine if categorical exclusion to the requirement for an environmental assessment (EA) or Environmental Impact Statement (EIS) is appropriate. Other design related efforts allowable under existing regulations deemed necessary to assure efficient and timely execution of facility projects.</p>									

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE																						
2. PROJECT TITLE/TYPE		3. END ITEM SUPPORTED MODEL			6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)					February 1998																						
Environmental-Correct Defects in Equalization Tanks					Propellants and Explosives (Nitroglycerin and Nitrocellulose)																											
4. PROJECT NUMBER		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)			6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)																											
5993313		Not Applicable			Not Applicable																											
ELEMENT OF COST		FY 96	FY 97	FY 98	FY 99	H. FACILITY																										
						1. NAME	2. LOCATION	3. TYPE (GOCO, GOCO, COCO)	Radford Army Ammunition Plant Radford, Virginia GOCO																							
A. CONSTRUCTION COST					1,629																											
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)																																
1.					0																											
2.																																
3.																																
SUBTOTAL EQUIPMENT COST					0																											
C. EQUIPMENT INSTALLATION COST					0																											
D. CONTRACTOR SUPPORT COST					144																											
E. CORPS OF ENGINEERS SUPPORT COST					98																											
F. OTHER IN-HOUSE SUPPORT COST																																
TOTAL FACILITY PROJECT COST					1,880																											
G. OTHER COSTS					0																											
1. FACILITY PROVE-OUT COST					0																											
2. MILITARY CONSTRUCTION APPN.																																
<p>NARRATIVE EXPLANATION</p> <p>This project is an Environmental Class 1H "Must Fund". This project provides for replacement of the leaking high density polyethylene liner system with a field applied elastomeric liner at the Waste Acid Equalization Basin. Because of leaks in the current liner, the facility cannot be used. Migration of acidic wastewater which contains Nitrocellulose (NC) fines/particles has resulted in the deterioration of concrete tanks and the deposition of NC fines/particles in confined spaces which are inaccessible for cleaning. Alternative methods for the liner were evaluated and this is the most cost effective.</p>																																
<p>I. RELATED PROJECTS</p> <table border="1"> <thead> <tr> <th>Project Number</th> <th>Title</th> <th>FY & Appn</th> <th>Value (\$ mil)</th> <th>Facing</th> <th>Start Date</th> <th>Compl Date</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not Applicable</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date	0	Not Applicable						<p>J. PRINCIPAL MILESTONES</p> <table border="1"> <thead> <tr> <th>MONTH & YEAR</th> </tr> </thead> <tbody> <tr> <td>1. CONCEPT DESIGN COMPLETE</td> </tr> <tr> <td>2. FINAL DESIGN COMPLETE</td> </tr> <tr> <td>3. INITIAL/FINAL PROJECT AWARD</td> </tr> <tr> <td>4. CONSTRUCTION COMPLETE</td> </tr> <tr> <td>5. EQUIPMENT INSTALLATION COMPLETE</td> </tr> <tr> <td>6. PROVE OUT BEGINS</td> </tr> <tr> <td>7. PROVE OUT COMPLETE</td> </tr> </tbody> </table>					MONTH & YEAR	1. CONCEPT DESIGN COMPLETE	2. FINAL DESIGN COMPLETE	3. INITIAL/FINAL PROJECT AWARD	4. CONSTRUCTION COMPLETE	5. EQUIPMENT INSTALLATION COMPLETE	6. PROVE OUT BEGINS	7. PROVE OUT COMPLETE
Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date																										
0	Not Applicable																															
MONTH & YEAR																																
1. CONCEPT DESIGN COMPLETE																																
2. FINAL DESIGN COMPLETE																																
3. INITIAL/FINAL PROJECT AWARD																																
4. CONSTRUCTION COMPLETE																																
5. EQUIPMENT INSTALLATION COMPLETE																																
6. PROVE OUT BEGINS																																
7. PROVE OUT COMPLETE																																

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 1998	
2. PROJECT TITLE/TYPE Infrastructure Replace Water Main Line 2		3. END ITEM SUPPORTED MODEL 120mm Tank									
4. PROJECT NUMBER 5993323		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable								6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	
H. FACILITY		FY 96		FY 97		FY 98		FY 99		1. NAME Iowa Army Ammunition Plant	
										2. LOCATION Middletown, Iowa	
										3. TYPE (GOGO, COCO, COCO) GOCO	
I. RELATED PROJECTS											
A. CONSTRUCTION COST											
B. EQUIPMENT COSTS (individual equipment cost should be specified for all equipment costing more than \$0.5 million)											
1.											
2.											
3.											
SUBTOTAL EQUIPMENT COST											
C. EQUIPMENT INSTALLATION COST											
D. CONTRACTOR SUPPORT COST											
E. CORPS OF ENGINEERS SUPPORT COST											
F. OTHER IN-HOUSE SUPPORT COST											
TOTAL FACILITY PROJECT COST											
G. OTHER COSTS											
1. FACILITY PROVE-OUT COST											
2. MILITARY CONSTRUCTION APPN.											
J. PRINCIPAL MILESTONES										MONTH & YEAR	
1. CONCEPT DESIGN COMPLETE										Nov-96	
2. FINAL DESIGN COMPLETE										Nov-97	
3. INITIAL/FINAL PROJECT AWARD										Mar-99/Mar-99	
4. CONSTRUCTION COMPLETE										Nov-99	
5. EQUIPMENT INSTALLATION COMPLETE										Not Applicable	
6. PROVE OUT BEGINS										Not Applicable	
7. PROVE OUT COMPLETE										Not Applicable	
NARRATIVE EXPLANATION											
<p>This project will replace a water line that has had 6 breaks since January 1996. The line is a 5,300 linear foot, cast iron water main located on the North and East sides of Line 2. The pipe services 6 production buildings. The cast iron pipe has deteriorated, weakened and corroded. As a result, the pipe's water carrying capacity has been reduced approximately 40 to 50 percent. The replacement will enhance fire protection service and increase the integrity of the water line.</p>											

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 1998	
2. PROJECT TITLE/TYPE Stores, Tool/Gage, and Machine Shop Consolidation		3. END ITEM SUPPORTED MODEL								Ammunition Items: 7.62mm Cartridges, .50 Caliber (All Types)	
4. PROJECT NUMBER 5993335		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable				6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable					
ELEMENT OF COST		FY 96		FY 97		FY 98		FY 99		H. FACILITY 1. NAME 2. LOCATION 3. TYPE (GOCO, GOCO, COCO) Lake City Army Ammunition Plant Independence, Missouri GOCO	
A. CONSTRUCTION COST											
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)											
1.											
2.											
3.											
SUBTOTAL EQUIPMENT COST											
C. EQUIPMENT INSTALLATION COST											
D. CONTRACTOR SUPPORT COST											
E. CORPS OF ENGINEERS SUPPORT COST											
F. OTHER IN-HOUSE SUPPORT COST											
TOTAL FACILITY PROJECT COST											
G. OTHER COSTS											
1. FACILITY PROVE-OUT COST											
2. MILITARY CONSTRUCTION APPN.											
NARRATIVE EXPLANATION		<p>This project will complete the consolidation of major elements of plant operations into one building in an effort to reduce operating costs. This project will provide adequate facilities for the transfer of .50 caliber stores from Building 3 into Building 12B and relocate the tools/gages and machine shop equipment from Building 10 to Building 3. This project involves necessary renovations to Building 12B to accommodate the new stores mission. This renovation also consists of upgrading the electrical, mechanical, and air conditioning systems in Building 12B.</p>									

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 1998	
2. PROJECT TITLE/TYPE Equipment Retrofit for Waterbased Mouth Waterproofing		3. END ITEM SUPPORTED MODEL								Ammunition Items: 7.62mm Cartridges, .50 Caliber (All Types)	
4. PROJECT NUMBER 5993355		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable								6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	
ELEMENT OF COST		FY 96		FY 97		FY 98		FY 99		H. FACILITY 1. NAME Lake City Army Ammunition Plant 2. LOCATION Independence, Missouri 3. TYPE (GOGO, COCO) GOCO	
A. CONSTRUCTION COST											
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)											
1.											
2.											
3.											
SUBTOTAL EQUIPMENT COST								1,442			
C. EQUIPMENT INSTALLATION COST								1,442			
D. CONTRACTOR SUPPORT COST								2,147			
E. CORPS OF ENGINEERS SUPPORT COST								129			
F. OTHER IN-HOUSE SUPPORT COST								0			
TOTAL FACILITY PROJECT COST								276		J. PRINCIPAL MILESTONES	
G. OTHER COSTS								3,994		1. CONCEPT DESIGN COMPLETE Not Applicable	
1. FACILITY PROVE-OUT COST								0		2. FINAL DESIGN COMPLETE Nov-97	
2. MILITARY CONSTRUCTION APPN.								0		3. INITIAL/FINAL PROJECT AWARD Mar-98/Mar-99	
										4. CONSTRUCTION COMPLETE Not Applicable	
										5. EQUIPMENT INSTALLATION COMPLETE Jul-00	
										6. PROVE OUT BEGINS Not Applicable	
										7. PROVE OUT COMPLETE Not Applicable	
NARRATIVE EXPLANATION											
This project will upgrade the 5.56mm, 7.62mm, and .50 caliber production lines to use a new cartridge case mouth waterproofing compound. The current methyl chloroform compound is ozone depleting and scheduled for phaseout. The new process is not ozone depleting and is environmentally friendly. Failure to fund this effort will stop production of small and medium caliber ammunition.											

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 1998	
2. PROJECT TITLE/TYPE Install Detonation Chamber/Molten Salt to Replace Open Burn Open Detonation		3. END ITEM SUPPORTED MODEL									
4. PROJECT NUMBER 5993357		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable				6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable					
ELEMENT OF COST		FY 96	FY 97	FY 98	FY 99	H. FACILITY					
						1. NAME Iowa Army Ammunition Plant					
						2. LOCATION Middletown, Iowa					
						3. TYPE (GOCO, GOCO, COCO) GOCO					
I. RELATED PROJECTS											
A. CONSTRUCTION COST						285					
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)											
1.						369					
2.											
3.											
SUBTOTAL EQUIPMENT COST						369					
C. EQUIPMENT INSTALLATION COST						0					
D. CONTRACTOR SUPPORT COST						1,071					
E. CORPS OF ENGINEERS SUPPORT COST						67					
F. OTHER IN-HOUSE SUPPORT COST						0					
TOTAL FACILITY PROJECT COST						1,792					
G. OTHER COSTS											
1. FACILITY PROVE-OUT COST						0					
2. MILITARY CONSTRUCTION APPN.						0					
J. PRINCIPAL MILESTONES											
1. CONCEPT DESIGN COMPLETE											
2. FINAL DESIGN COMPLETE											
3. INITIAL/FINAL PROJECT AWARD											
4. CONSTRUCTION COMPLETE											
5. EQUIPMENT INSTALLATION COMPLETE											
6. PROVE OUT BEGINS											
7. PROVE OUT COMPLETE											
MONTH & YEAR											
Not Applicable											
Nov-97											
Feb-99/Feb-99											
Apr-00											
Not Applicable											
Not Applicable											
Not Applicable											
Not Applicable											
NARRATIVE EXPLANATION											
This project will construct a detonation chamber and a molten salt bath for the disposal of explosive waste. This facility will process up to 50 pounds of explosive waste at one time (a full M795 artillery round) compared to processing 5 pounds of explosive waste utilizing the current method of sectioning (cutting) of explosives. This project will also provide for the disposal of heavy metals and other hazardous substances. This facility will bring Iowa Army Ammunition Plant (AAP) into compliance with the 1997 requirement to close the Open Burn/Open Detonation (OB/OD) area and will provide a savings of 50 cents-per-pound of waste when compared to off-site disposal.											

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 1998		
2. PROJECT TITLE/TYPE Production Support and Equipment Replacement		3. END ITEM SUPPORTED MODEL				Load, Assemble, and Pack (LAP) of Primers, Detonators, Delays, Fuzes, and Volcano Items Including M98 Detonator, M53 Delay, and M55 Detonator						
4. PROJECT NUMBER 5995316		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable				6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable						
ELEMENT OF COST		FY 96	FY 97	FY 98	FY 99	H. FACILITY						
						1. NAME Lone Star Army Ammunition Plant 2. LOCATION Texarkana, Texas 3. TYPE (GOCO, GOCO, COCO) GOCO						
I. RELATED PROJECTS												
A. CONSTRUCTION COST		405	0	713	916	Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)		0	134	112	669	Not Applicable						
SUBTOTAL EQUIPMENT COST		0	134	112	669							
C. EQUIPMENT INSTALLATION COST		0	0	1	155							
D. CONTRACTOR SUPPORT COST		12	4	53	55							
E. CORPS OF ENGINEERS SUPPORT COST		0	0	0	0							
F. OTHER IN-HOUSE SUPPORT COST		0	0	0	0							
TOTAL FACILITY PROJECT COST		417	138	879	1,795							
G. OTHER COSTS					J. PRINCIPAL MILESTONES							
1. FACILITY PROVE-OUT COST		0	0	0	0	1. CONCEPT DESIGN COMPLETE			MONTH & YEAR			
2. MILITARY CONSTRUCTION APPN.		0	0	0	0	2. FINAL DESIGN COMPLETE			Not Applicable			
						3. INITIAL/FINAL PROJECT AWARD			Nov-97			
						4. CONSTRUCTION COMPLETE			Mar-99/Mar-99			
						5. EQUIPMENT INSTALLATION COMPLETE			Sep-01			
						6. PROVE OUT BEGINS			Sep-01			
						7. PROVE OUT COMPLETE			Not Applicable			
									Not Applicable			
NARRATIVE EXPLANATION												
This project will replace the compressed air drying equipment which is essential for plant operation and purchase 2 trailer-mounted steam boilers. Further, this effort will repave Concord Church and Old Boston Roads which provide access to the XX Testing Area (Volcano, Detonator, Grenades), and the road to Area G which provides access to Primer, Tracers, Pyrotechnic Mixes, and Expulsion Charges.												

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 1998		
2. PROJECT TITLE/TYPE Production Support and Equipment Replacement		3. END ITEM SUPPORTED MODEL Load, Assemble, and Pack (LAP) of Various Ammunition and Mortar Rounds to include: 40mm Demo Kit, 80/81/120mm Mortar				6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable						
4. PROJECT NUMBER 5995317		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable				6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable						
ELEMENT OF COST		FY 96	FY 97	FY 98	FY 99	H. FACILITY 1. NAME Milan Army Ammunition Plant 2. LOCATION Milan, Tennessee 3. TYPE (GOCO, GOCO, COCO) GOCO						
A. CONSTRUCTION COST		1,013	1,458	0	1,967							
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)		646	527	1,173	838	I. RELATED PROJECTS						
1.						Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date
2.							Not Applicable					
3.												
SUBTOTAL EQUIPMENT COST		646	527	1,173	838							
C. EQUIPMENT INSTALLATION COST		736	39	15	398							
D. CONTRACTOR SUPPORT COST		69	63	89	118							
E. CORPS OF ENGINEERS SUPPORT COST		0	0	0	0							
F. OTHER IN-HOUSE SUPPORT COST		0	0	0	0							
TOTAL FACILITY PROJECT COST		2,464	2,087	1,277	3,321	J. PRINCIPAL MILESTONES						
G. OTHER COSTS						1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE 3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE						
1. FACILITY PROVE-OUT COST		0	0	0	0	MONTH & YEAR Not Applicable Sep-97 Jan-99/Jun-99 Jun-00 Jul-00 Not Applicable Not Applicable						
2. MILITARY CONSTRUCTION APPN.		0	0	0	0							
NARRATIVE EXPLANATION This effort will purchase a fluoroscope cabinet to provide 360-degree x-rays of mortar rounds. A boiler monitoring system will allow all boilers to be monitored and adjustments made from one central location, additional safety features are included. A perimeter fence will be refurbished/replaced around a production area. Five roads will be resurfaced because of extensive deterioration and three buildings will be reroofed to protect stocks. Two production lines will be equipped to recycle pink water, thus reducing the volume of water to be treated.												

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 1998			
2. PROJECT TITLE/TYPE Production Support and Equipment Replacement		3. END ITEM SUPPORTED MODEL			4. PROJECT NUMBER 5995326					5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable			
6. PROJECT NUMBER		7. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable			8. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable								
ELEMENT OF COST		FY 96			FY 97			FY 98			FY 99		
A. CONSTRUCTION COST		736			2,182			456			1,786		
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)		786			604			1,901			1,161		
1.													
2.													
3.													
SUBTOTAL EQUIPMENT COST		786			604			1,901			1,161		
C. EQUIPMENT INSTALLATION COST		270			403			752			358		
D. CONTRACTOR SUPPORT COST		21			54			58			58		
E. CORPS OF ENGINEERS SUPPORT COST		36			165			0			107		
F. OTHER IN-HOUSE SUPPORT COST		0			0			0			0		
TOTAL FACILITY PROJECT COST		1,849			3,408			3,167			3,470		
G. OTHER COSTS		0			0			0			0		
1. FACILITY PROVE-OUT COST		0			0			0			0		
2. MILITARY CONSTRUCTION APPN.		0			0			0			0		
NARRATIVE EXPLANATION This project will rehabilitate main plant bridges 9102-1 and 9102-2 and replace the following items: Control System at the Nitric Acid Concentrator/Sulfuric Acid Concentrator (NAC/SAC); the Oil Separator System in the C-Line Production Area; the Ammonia Oxidation Plant (AOP) Tower Number 1 where nitric acid is made; and sections of railroad in the Coal Storage Area, Powerhouse Building, Acid Area, and areas surrounding the Filter Building.													

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 1998	
2. PROJECT TITLE/TYPE Production Support and Equipment Replacement		3. END ITEM SUPPORTED MODEL				5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable				6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	
4. PROJECT NUMBER 5995332		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable				6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable				7. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	
ELEMENT OF COST		FY 96	FY 97	FY 98	FY 99	H. FACILITY 1. NAME 2. LOCATION 3. TYPE (GOCO, GOCO, COCO) Lake City Army Ammunition Plant Independence, Missouri GOCO					
A. CONSTRUCTION COST		2,568	759	304	1,791						
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)											
1.											
2.											
3.											
SUBTOTAL EQUIPMENT COST		0	0	1,149	1,210						
C. EQUIPMENT INSTALLATION COST		0	0	571	527						
D. CONTRACTOR SUPPORT COST		53	0	53	103						
E. CORPS OF ENGINEERS SUPPORT COST		165	0	0	56						
F. OTHER IN-HOUSE SUPPORT COST		0	0	0	0						
TOTAL FACILITY PROJECT COST		2,786	759	2,077	3,687						
G. OTHER COSTS											
1. FACILITY PROVE-OUT COST		0	0	0	0						
2. MILITARY CONSTRUCTION APPN.		0	0	0	0						
NARRATIVE EXPLANATION		<p>This project replaces a 20-year-old, poorly functioning accumulator on Bullet Submodule 4 in Building 1 and reconditions two unreliable, 30-year-old Case Head Turn Machines in Building 3. It replaces six Production Quality Control System Computers, 30-year-old, high-maintenance telephone cable (South Plant); 40-year-old leaky water service lines (20mm, Building 139); 42-year-old Optical Crack Detector; and two 41-year-old air compressors. This effort will also upgrade 1-1/2 miles of the severely deteriorated portions of Buckner Road, which is unsafe for continued daily operations, and replace 1 culvert on Dale Pollard Drive on which heavy trucks cannot drive. Further, it will replace the roof on Building 3, which is unrepairable, and rehabilitate the unsafe, rapidly deteriorating conductive floors of Building 1.</p>									

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE	
2. PROJECT TITLE/TYPE		3. END ITEM SUPPORTED MODEL			6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)					February 1998	
Production Support and Equipment Replacement					Medium and Large Caliber Projectiles, 40 pound cratering						
4. PROJECT NUMBER		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)			6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)						
5995333		Not Applicable			Not Applicable						
ELEMENT OF COST		FY 96	FY 97	FY 98	FY 99	H. FACILITY					
						1. NAME					
						2. LOCATION					
						3. TYPE (GOCO, GOCO, COCO)					
						Iowa Army Ammunition Plant					
						Middletown, Iowa					
						GOCO					
I. RELATED PROJECTS											
1.						Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date
2.							Not Applicable				Compl Date
3.											
SUBTOTAL EQUIPMENT COST		697	0	1,664	611						
C. EQUIPMENT INSTALLATION COST		91	0	412	1,209						
D. CONTRACTOR SUPPORT COST		11	0	51	114						
E. CORPS OF ENGINEERS SUPPORT COST		27	34	0	101						
F. OTHER IN-HOUSE SUPPORT COST		0	7	0	0						
TOTAL FACILITY PROJECT COST		2,147	1,089	2,487	3,699	J. PRINCIPAL MILESTONES					
G. OTHER COSTS						1. CONCEPT DESIGN COMPLETE					
1. FACILITY PROVE-OUT COST		0	0	0	0	2. FINAL DESIGN COMPLETE					
2. MILITARY CONSTRUCTION APPN.		0	0	0	0	3. INITIAL/FINAL PROJECT AWARD					
						4. CONSTRUCTION COMPLETE					
						5. EQUIPMENT INSTALLATION COMPLETE					
						6. PROVE OUT BEGINS					
						7. PROVE OUT COMPLETE					
						MONTH & YEAR					
						Jan-97					
						Nov-97					
						Jan-99/Mar-99					
						Jun-00					
						Jul-00					
						Not Applicable					
						Not Applicable					
NARRATIVE EXPLANATION											
<p>This project includes the replacement of two water systems, a vacuum pump to improve the quality of the molten explosive, and the replacement of the 50-year-old air compressor for the main heat plant. A new computer system will be purchased and installed in the plant laboratory that will automate the recording of tests and provide increased integrity of the results. Warehouses with only rail access will have truck docks constructed. An oxide of nitrogen (NOX) scrubber will be purchased and installed in the main heating plant. Friable asbestos will be removed and replaced with non-asbestos containing insulation.</p>											

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 1998	
2. PROJECT TITLE/TYPE Production Support and Equipment Replacement		3. END ITEM SUPPORTED MODEL				120mm (M929, M934), 155mm (M107, M795, M825)0					
4. PROJECT NUMBER 5995342		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable				6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable					
H. FACILITY		FY 96		FY 97		FY 98		FY 99		1. NAME Scranton Army Ammunition Plant	
ELEMENT OF COST		578		785		0		986		2. LOCATION Scranton, Pennsylvania	
A. CONSTRUCTION COST		0		584		89		986		3. TYPE (GOGO, GOCO, COCO) GOCO	
I. RELATED PROJECTS											
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)		0		0		0		0		Project Number	
1.		0		0		0		0		Title	
2.		0		0		0		0		FY & Appn	
3.		0		0		0		0		Value (\$ mil)	
SUBTOTAL EQUIPMENT COST		0		584		89		986		Facing	
C. EQUIPMENT INSTALLATION COST		0		317		25		403		Start Date	
D. CONTRACTOR SUPPORT COST		3		49		12		57		Compl Date	
E. CORPS OF ENGINEERS SUPPORT COST		0		0		0		0			
F. OTHER IN-HOUSE SUPPORT COST		0		0		0		0			
TOTAL FACILITY PROJECT COST		581		1735		126		2195		MONTH & YEAR	
G. OTHER COSTS		0		0		0		0		n/c	
1. FACILITY PROVE-OUT COST		0		0		0		0		Nov-97	
2. MILITARY CONSTRUCTION APPN.		0		0		0		0		Jan 99/Mar 99	
		0		0		0		0		Aug-01	
		0		0		0		0		Sep-01	
		0		0		0		0		n/c	
		0		0		0		0		n/c	
J. PRINCIPAL MILESTONES											
1. CONCEPT DESIGN COMPLETE											
2. FINAL DESIGN COMPLETE											
3. INITIAL/FINAL PROJECT AWARD											
4. CONSTRUCTION COMPLETE											
5. EQUIPMENT INSTALLATION COMPLETE											
6. PROVE OUT BEGINS											
7. PROVE OUT COMPLETE											
NARRATIVE EXPLANATION											
This project will provide for rehabilitation of the deteriorated heat treat cooling tower which is critical to the continued operational capability of the Heat Treat Facility. This effort will further provide for the rehabilitation of storm drains, drainage, piping, and paved surface drainage collection throughout the facility which are all in a state of deterioration from 90 years of use and modifications. This project will also replace the existing Pneumatic Conveyance System and will provide for structural repair to the Aceco Yard Crane.											

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:										Date:		
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support										February 1998		
P-1 Item Nomenclature:										LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)		
Program Elements for Code B Items:												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	470.3	32.5	12.7	21.1	16.4	15.4	7.0	7.1	6.8	6.1	0.0	595.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	470.3	32.5	12.7	21.1	16.4	15.4	7.0	7.1	6.8	6.1	0.0	595.4
Initial Spares												
Total Proc Cost	470.3	32.5	12.7	21.1	16.4	15.4	7.0	7.1	6.8	6.1	0.0	595.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This line provides for the preserving, storing, and disposing of industrial facilities and equipment that are no longer required to support current production. Funding is required as follows:

<p>PROJECT NUMBER</p> <p>59X4050 INDUSTRIAL OPERATIONS COMMAND (IOC) LAYAWAY AND/OR REDISTRIBUTION OF GOVERNMENT OWNED EQUIPMENT IN GOVERNMENT OWNED PLANTS</p> <p>59X9589 INDUSTRIAL OPERATIONS COMMAND (IOC) LAYAWAY AND/OR REDISTRIBUTION OF GOVERNMENT OWNED EQUIPMENT LOCATED IN CONTRACTOR PLANTS</p> <p>TOTAL IOC LAYAWAY OF INDUSTRIAL FACILITIES PROGRAM EXECUTIVE OFFICE (PEO) TOTAL LAYAWAY</p>	<p>FY 99</p> <p>15.3 DECONTAMINATION (9.9) LAYAWAY (3.5) MODIFIED CARETAKER (1.9)</p> <p>0.1 DECONTAMINATION (0.0) LAYAWAY (0.0) MODIFIED CARETAKER</p> <p>15.4 0.0 15.4</p>
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JUSTIFICATION: Funds are used for the protection and preservation of equipment and facilities no longer required for active production but must be retained for possible future peacetime or replenishment production needs. Included are those funds needed to cover the packaging, handling, and transportation (PCH&T) costs for moving equipment to a disposal point or storage site; decontamination; and plant clearance requirements.

Exhibit P-40C Budget Item Justification Sheet				Date
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		February 1998
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support		LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)		
Program Elements for Code B Items		Code	Other Related Program Elements	
<u>LOCATION</u>	<u>PROJECT TITLE</u>	<u>PROJECT</u>	<u>FY 1999</u>	
Iowa Army Ammunition Plant (AAP), Milan AAP, Lone Star AAP, Holston AAP	Retain (RT) - Layaway (Lwy) Minor Efforts	59X8000	.200	
Milan AAP, Lone Star AAP, Iowa AAP, Lake City AAP	Downsize (DS) - Packaging, Crating, Handling, and Transportation (PCH&T) (Various)	59X8200	.102	
Badger AAP Baraboo, WI	DS - Disposal of Facilities	5998907	1.614	
Holston AAP Kingsport, TN	DS - Safety - Asbestos Removal, Plant-Wide	5998708	1.169	
Holston AAP Kingsport, TN	RT - Lwy, Decontaminate, and Preserve Research Department Explosive/High Melt Explosive (RDX/HMX), Acid Production Equipment, and Support Facilities	5998905	6.714	

Exhibit P-40C Budget Item Justification Sheet				Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature			
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support		LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)			
Program Elements for Code B Items		Code	Other Related Program Elements		
LOCATION	PROJECT TITLE	PROJECT		FY 1999	
Joliet AAP Joliet, IL	DS - Transition Load, Assemble, and Pack (LAP) Facility in Accordance with Public Law (PL) 104-106	5998906		1.618	
Lake City AAP Independence, MO	DS - Transition to Modified Caretaker, Phase 3	5998921		1.873	
Longhorn AAP Marshall, TX	DS - Disposal of Facilities	5998908		1.997	
Olin, Alliant, KDI Precision Products	RT - Lowy Minor Efforts Under \$50,000	59X9000		.075	
T O T A L				15.362	

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity / Serial No.												February 1998
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support												
P-1 Item Nomenclature:												
MAINTENANCE OF INACTIVE INDUSTRIAL FACILITIES (EP1500)												
Program Elements for Code B Items:												
Code:												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	296.7	40.9	17.3	22.1	22.5	15.8	13.2	12.5	11.0	9.8	0.0	461.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	296.7	40.9	17.3	22.1	22.5	15.8	13.2	12.5	11.0	9.8	0.0	461.8
Initial Spares												
Total Proc Cost	296.7	40.9	17.3	22.1	22.5	15.8	13.2	12.5	11.0	9.8	0.0	461.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
This line provides for the maintenance of laidaway portions of active plants, care and maintenance of laidaway plants, and the storage, protection, and maintenance of laidaway Government-owned equipment being stored on-site at contractor-owned plants. Detailed budget estimates, by location, are provided on the Program Cost Breakdown (P-5). The following is a summary of funds required:

- (1) Inactive Production Lines/Areas at Active Plants (FY 99 - \$ 7.1M)
- (2) Inactive Production Lines/Areas at Inactive Plants (FY 99 - \$ 8.4M)
- (3) Inactive Production Lines/Areas at Contractor Plants (FY 99 - \$ 0.3M)

JUSTIFICATION:
Funds are used for the maintenance of laidaway ammunition industrial facilities to include utilities, buildings, nonseverable equipment, plant equipment, special tooling, and special test equipment being retained as part of approved plant equipment packages (PEPs) which are required to support future replenishment requirements. Also, includes a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support.

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support			P-1 Line Item Nomenclature: MAINTENANCE OF INACTIVE INDUSTRIAL FACILITIES (EP1500)			Weapon System Type:			Date: February 1898		
Ammunition Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CO		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
INACTIVE LINES AT ACTIVE PLANTS														
		Crane Army Ammunition Activity (AAA)	72	0					165			100		
		Holston Army Ammunition Plant (AAP)	500	706					1,887			2,326		
		Iowa AAP	0	200					510			500		
		Indian Head	91	0					0			0		
		Lake City AAP	83						506			638		
		Lone Star AAP	295	476					319			636		
		McAlester AAP	0	56					222			427		
		Milan AAP	674	211					1,213			227		
		Pine Bluff Arsenal	424						1,666			700		
		Radford AAP	329	2,500					3,004			1,500		
		Seneca/Hawthorne Army Depot	732	186					0			30		
		SubTotal	3,200						9,492			7,084		
INACTIVE PLANTS														
		Badger AAP	3,821						3,225			760		
		Cornhusker AAP	53	0					66			67		
		Fort Worth Corps of Engineers (CE)	967						0			0		
		Indiana AAP	0	0					0			264		
		Joliet AAP	0	10					622			69		
		Kansas AAP	0	0					0			0		
		Longhorn AAP	711	484					485			500		
		Louisiana AAP	683	1,500					323			1,200		
		Mississippi AAP	0	2,498					2,519			1,700		
		Newport Chemical Activity	351	0					0			0		
		Ravenna AAP	940	1,730					806			301		
		Riverbank AAP	1,533	1,552					1,474			1,362		
		Scranton AAP	191	350					263			300		
		Sunflower AAP	2,158	1,930					2,720			600		
		Twin Cities AAP	0	153					216			220		
		Volunteer AAP	2342	1253					0			1100		
		SubTotal	13,750						12,719			8,443		

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support			P-1 Line Item Nomenclature: MAINTENANCE OF INACTIVE INDUSTRIAL FACILITIES (EP1500)			Weapon System Type.			Date: February 1988		
ID	CD	Ammunition Cost Elements	FY 96		FY 97		FY 98		FY 99		TotalCost	Qty	UnitCost	UnitCost
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each				
INACTIVE LINES AT CONTRACTOR PLANTS														
		Alliant Techsystems, Incorporated	134			0								125
		AMRON Corporation (Antigo/Waukesha)	59			0								45
		Dayron	0			0								12
		Intercontinental Manufacturing Company (IMCO)	107			0								117
		SubTotal	300			0								299
		TOTAL	17,250			22,110								15,826

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No.												February 1998
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support												P-1 Item Nomenclature:
Program Elements for Code B Items:												CONVENTIONAL AMMO DEMILITARIZATION (EP1800)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	158.8	104.3	93.5	95.4	91.0	91.7	90.8	92.1	93.4	0.0	1009.0	
Less FY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	158.8	104.3	93.5	95.4	91.0	91.7	90.8	92.1	93.4	0.0	1009.0	
Initial Spares												
Total Proc Cost	158.8	104.3	93.5	95.4	91.0	91.7	90.8	92.1	93.4	0.0	1009.0	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The conventional ammunition demilitarization program funds the disposal, demilitarization, and resource recovery and recycling of conventional ammunition. This program also funds the movement of ammunition and technical support for demilitarization projects at various installations, and the commercial contracts for resource recovery/demilitarization of excess, obsolete, and unserviceable ammunition. Safety demilitarization is also funded for those ammunition assets which have become unsafe for continued storage.

JUSTIFICATION: As of 30 Sep 97, the conventional ammunition demilitarization account contained over 414,000 short tons of ammunition. An increasing portion of the existing serviceable ammunition inventory of all Services is becoming excess to requirements. Additionally, ammunition which is in an unserviceable but repairable condition is being placed in the demilitarization account because the cost to repair is not supported by firm requirements. The net result of the changing situation has been a tremendous increase in the quantity of ammunition either currently requiring demilitarization or forecast to enter the demilitarization account. In Fiscal Year 1997, demilitarization accomplishments totaled 144,022 short tons, the highest level ever achieved; however, an additional 251,038 short tons were generated. Future generations of ammunition into the demilitarization account are forecasted to approach 691,809 short tons over the next 6 years. Fiscal Year 1998 accomplishments are projected to be approximately 117,000 short tons. The accumulation of ammunition requiring demilitarization has a direct impact on the Army's ability to effectively support contingency operations. Demilitarization stocks simply get in the way of mobility operations and Base Realignment and Closure (BRAC) actions - stocks must be moved into already crowded depot storage locations. Depot tiering requirements are impacted as demilitarization stocks are malpositioned for the end state assignments. There is also a safety consideration in that ammunition stocks are becoming older and potentially less stable. The demilitarization program has the capability to execute at funding levels well in excess of those proposed, but the proposed levels will at least minimize the worst impacts of an increasing demilitarization inventory. As the execution agent for demilitarization of ammunition from all Services, the Army must demonstrate a strong commitment to reduce the backlog and provide demilitarization support for future additions of ammunition into the demilitarization account. The growth between FY 98 and FY 99 reflects increased Army Working Capital Fund rates.

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support				P-1 Line Item Nomenclature: CONVENTIONAL AMMO DEMILITARIZATION (EP1800)				Weapon System Type:		Date: February 1998				
Ammunition Cost Elements			FY 96				FY 97				FY 98				FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	ShortTons	\$000	\$000	ShortTons	\$000	\$000	ShortTons	\$000	\$000	ShortTons	\$000	\$000	ShortTons	\$000
WP/PWP	CP		2,623	2,092		1,681	2,255		2,764	4,858		2,975	5,229				
RIOT CONTROL	CR		6,440	4,269		2,379	1,001		546	601		587	647				
SMOKES, HC, COLORS, FS	CS		1,092	772		1,790	1,423		0	0		0	0				
DEPLETED URANIUM/TUNGSTEN CARBIDE	DU		3,071	2,400		3,186	2,840		1,912	1,489		2,057	1,603				
PYROTECHNICS/ILLUMINATION/NON FRAG	FP		0	0		535	469		132	246		142	265				
HE BOMBS	HB		239	1,790		12,695	21,206		777	813		836	875				
HE CARTRIDGES	HC		7,679	13,775		633	603		15,053	17,481		16,203	18,816				
HE EXPLOSIVE "D"	HD		0	0		0	0		0	0		0	0				
BULK HIGH EXPLOSIVES	HE		0	0		0	0		130	0		140	0				
HE GRENADES	HG		0	0		0	0		0	0		0	0				
HE DEPTH CHARGES	HH		0	0		0	0		0	0		0	0				
HE ICM/CBU AND SUBMUNITIONS WTV	HI		5,702	32,227		8,331	25,277		2,166	1,643		2,332	1,769				
HE MISSILES	HM		2,060	1,728		42	117		12,622	25,133		13,587	27,053				
HE PROJECTILES AND WARHEADS	HP		12,846	23,458		2,625	6,361		325	699		350	752				
HE ROCKETS	HR		0	0		411	412		6,640	12,840		7,147	13,821				
DEMOLITION MATERIAL	HX		67	69		0	0		99	291		107	313				
HE LAND MINES	HZ		1,641	1,743		2,431	3,667		1,083	1,180		1,166	1,270				
INERT	I		1,127	5,203		291	1,213		525	952		565	1,025				
BULK PROP	PB		0	0		0	0		0	0		0	0				
PROPELLANT CHARGES AND INCREMENTS	PC		0	0		0	0		1,303	10,000		1,402	10,764				
PROPELLENT MUNITIONS/COMPONENTS	PD		1,785	2,741		0	0		653	3,408		703	3,668				
SMALL ARMS AMMO THRU 20mm	SA		68	4,928		906	109		8	7,500		8	8,073				
INCINERABLE MUNITIONS	SC		33	26		1,025	945		671	2,483		722	2,673				
FUZES	SF		549	845		1,042	1,251		330	398		355	428				
MULTIPLE FAMILY	MU		11,426	4,703		1,281	1,227		33,365	42,404		25,916	35,644				
NO FAMILY	N		23,831	52,029		39,913	49,024		1,725	0		10,683	0				
OCONUS DEMIL	OC		11,200	5,909		14,231	10,151		8,200	8,500		10,000	10,000				
GRAND TOTAL			93,479	160,707		95,428	129,551		91,029	142,919		97,983	144,688				

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support												ARMS INITIATIVE (EP2500)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	115.0	0.0	44.8	29.9	24.4	4.9	4.8	4.8	4.8	4.7	0.0	238.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	115.0	0.0	44.8	29.9	24.4	4.9	4.8	4.8	4.8	4.7	0.0	238.1	
Initial Spares													
Total Proc Cost	115.0	0.0	44.8	29.9	24.4	4.9	4.8	4.8	4.8	4.7	0.0	238.1	
Flyaway U/C													
Wpn Sys Proc U/C													
<p>DESCRIPTION: The Armament Retooling and Manufacturing Support (ARMS) Initiative reuses idle capacity at active and inactive government-owned, contractor operated (GOCO) ammunition facilities through commercialization. Its objectives are to improve facility cost efficiencies (stable/lower product cost); reduce overhead costs; create opportunities for small businesses; retain skills; sustain economic development, and serve as a model for defense conversion. ARMS complies with Title 10 U.S.C. 2501, Note 2.</p> <p>JUSTIFICATION: The Army's ammunition industrial manufacturing base is unique. It involves handling/processing hazardous materials, represents a large investment, and requires critical skills. To meet the peacetime and replenishment mission challenges of high quality production efficiencies at minimal cost, the ARMS initiative becomes a catalyst to commercialize ammunition facilities. This resulting product diversification and facility asset optimization meets the ARMS program objectives - primarily production process efficiency at minimal operating cost.</p>													

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support		P-1 Line Item Nomenclature: ARMS INITIATIVE (EP2500)		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
Financial Incentives		42,352			29,486			23,844	4,275
Environmental Baselines		161						186	186
Loan Guarantees		1,364						152	152
Administrative Support		880			432			248	248
TOTAL		44,757			29,918			24,430	4,861
Active and inactive Army Ammunition Plants are currently participating in the Armament, Retooling, and Manufacturing Support (ARMS) Initiative and eligible to receive the incentives. The Army is currently validating its ammunition industrial base configuration under the Production Base Assessment. Facility eligibility may change, requiring transition and other business strategies to be developed for the ARMS program.									